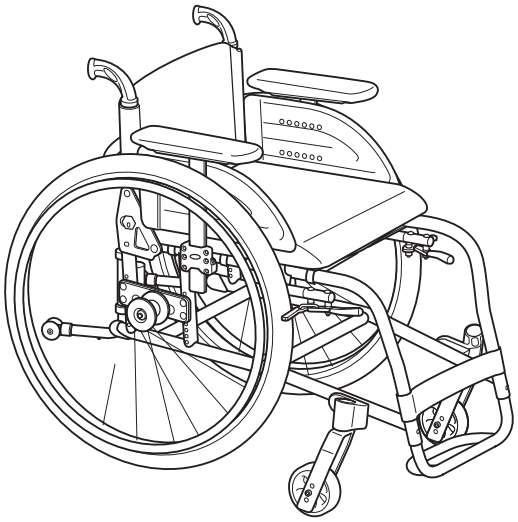
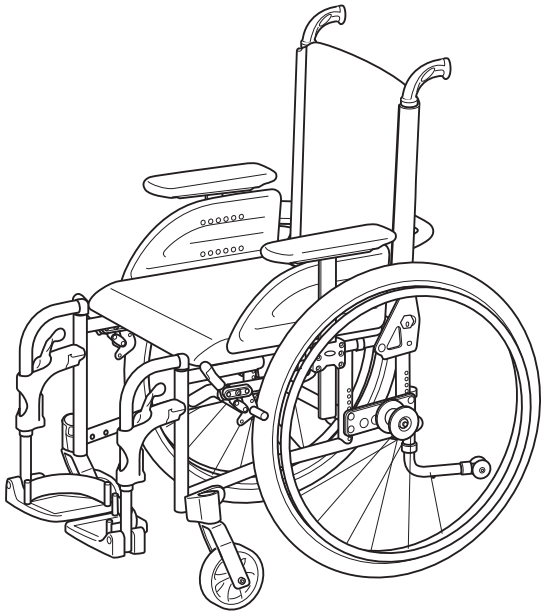
INVACARE®

Yes, you can.®

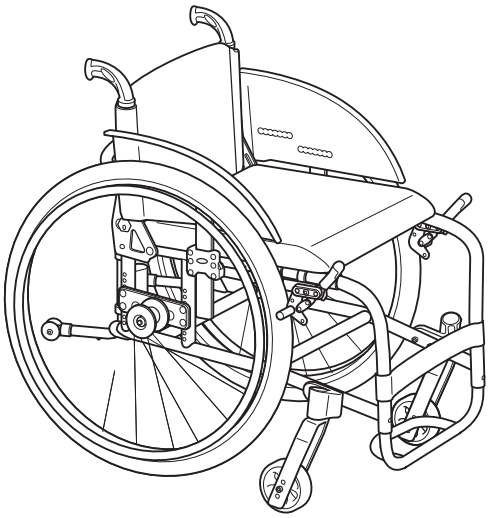
Manual

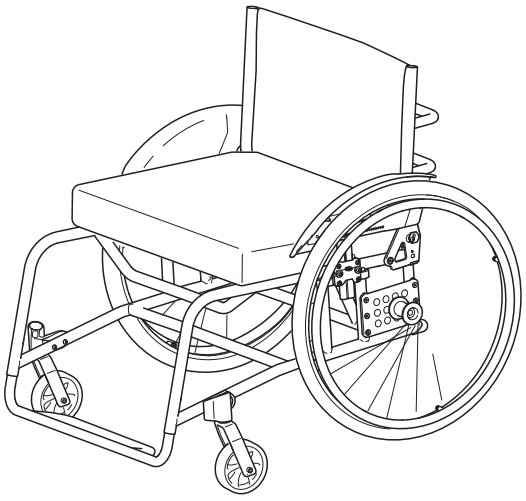
English





Invacare® XLT





CE

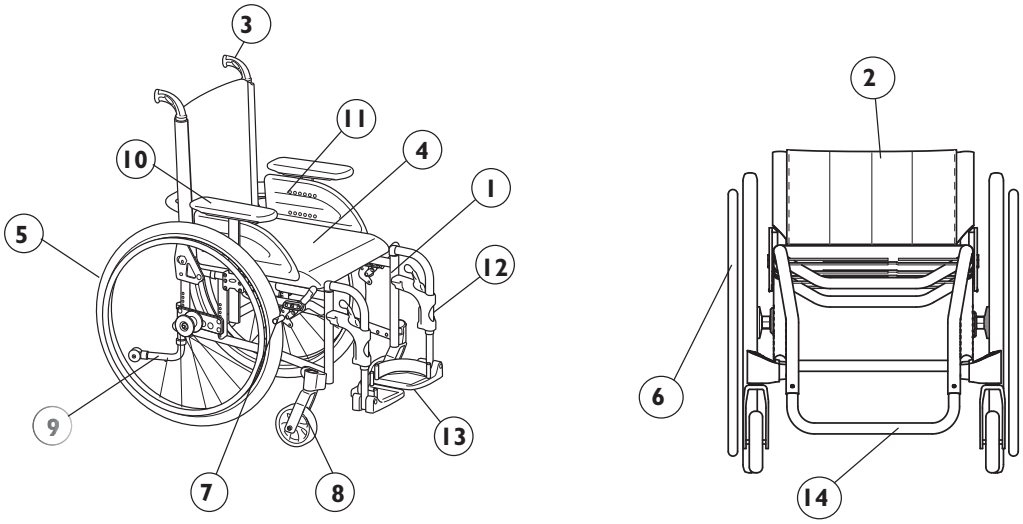
© Invacare© Rea™ AB

Every effort has been made to ensure that the contents of this publication are updated at the time of printing. As part of the ongoing improvement of the products, Invacare Rea AB reserves the right to modify existing models at any time.
Any use of this publication, or parts thereof, as well as any reproduction of images, must have the written consent of Invacare Rea AB

Contents

Product description	**4**
XLT models	**5**
Intended use	**7**
Upholstery and frame colours	8
Equipment and accessories	8
Technical data	**9**
Delivery check	10
Assembly	**10**
Adjustments	**12**
Footbow	12
Fixed legrests	13
Angle adjustable legrests	13
Calf pads/ footplates	14
Footrests one-piece	14
Seat	15
Backrest	16
Armrests/mudguard	19
Brakes	20
Rear wheel attachment	21
Camber	21
Rear wheel attachment xlt max	22
Castor wheels	23
Seat height tables	24
Accessories	**33**
Anti-tip devices	33
Trunk support	35
One-arm drive	36
Anti-tip device for one-arm drive	36
Assistant manoeuvred	37
Drumbrakes	37
Amputee legrest	38
External push handles	38
Foldable push handles	38
Head and neckrest	39
Pelvic belt	40
Transport as luggage	41
Transporting wheelchairs in vehicles	42
Restraint methods	44
Safety instructions/ Propelling techniques	**45**
Guarantee	47
Maintenance instructions	47

Parts of the wheelchair



1. Frame (chassis)
2. Backrest
3. Push handles
4. Seat
5. Rear wheel
6. Hand rims
7. Brakes
8. Castors
9. Anti tip device
10. Armrests
11. Jaw
12. Legrests
13. Footrest
14. Footbow

Product description Invacare® *XLT*

Invacare® XLT is a wheelchair with many adjustment options and accessories. To ensure that you benefit as much as possible from your Invacare® XLT, and in order to do its options justice, the chair must be tested and adjusted by competent personnel. We hope that you have also received instructions for using your Invacare® XLT in everyday life.

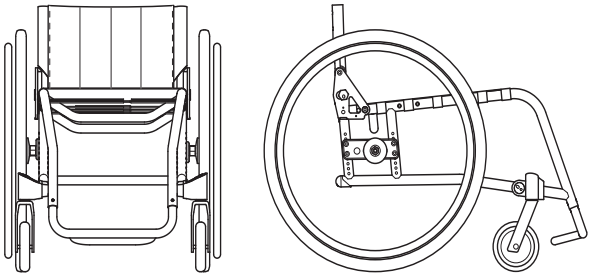
The Invacare® XLT frame, footbow and backrest are manufactured from high quality titanium. For the Swing version the legrest hangers are made from aluminium. The cover for the seat cushion is made of Jemima and the backrest cover is made of nylon.

This manual includes a description of the parts of the chair, simple adjustment options, how to use the Invacare® XLT safely and how to transport it. The manual must be read thoroughly before the chair is used. Also included in this manual is a description of how the most common accessories are fitted and also some slightly more advanced settings.

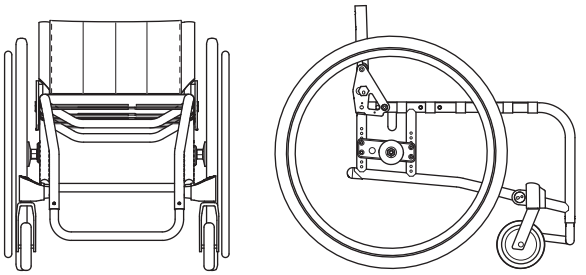
As the Invacare® XLT has many different components and accessories, the appearance of the accessories you have for your chair may differ from those shown.

XLT Models

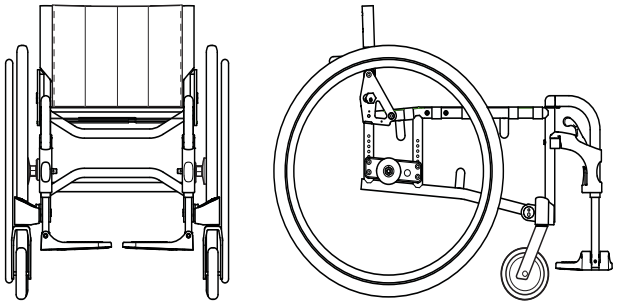
1.



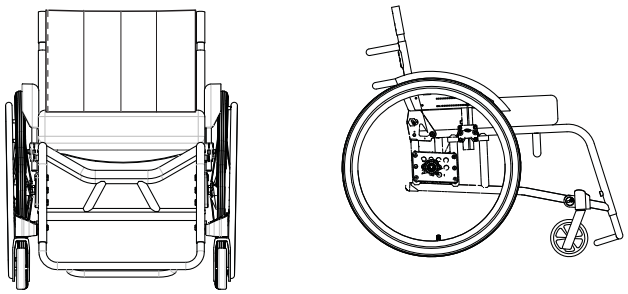
2.



3.



4.



XLT is available in four models.

1. **XLT Active (75° knee angle)**
   The XLT Active front is designed to hold your feet and lower parts of your leg steady. The footbow is standard.

   Seat angles 0-14° can be obtained, depending on the size of castors and rear wheels and the row of mounting holes used for the castors and rear wheels.

2. **XLT Dynamic (90° knee angle)**
   The XLT Dynamic is designed to hold your feet steady. The total length of the wheelchair is very compact. The footbow is standard.

   Seat angles 0-14° can be obtained, depending on the size of castors and rear wheels and the row of mounting holes used for the castors and rear wheels.

3. **XLT Swing (80°, 90° and angle adjustable legrests)**
   The XLT Swing is designed with a front offering more space for the feet and lower parts of the legs. The standard delivery includes collapsible footrests.

   Seat angles 0-14° can be obtained, depending on the size of castors and rear wheels and the row of mounting holes used for the castors and rear wheels.

4. **XLT Max (75°)**
   The XLT Max is designed for larger users and has a user weight capacity of 180 kg.

   Seat angles 0-14° can be obtained, depending on the size of castors and rear wheels and the row of mounting holes used for the castors and rear wheels.

NB!

This symbol means warning.

On this page a number of points affecting your personal safety are shown. Please read it carefully!

Invacare® is only responsible for product changes carried out by personnel who we authorise. We reserve the right to make any changes to equipment and specifications without prior notice.

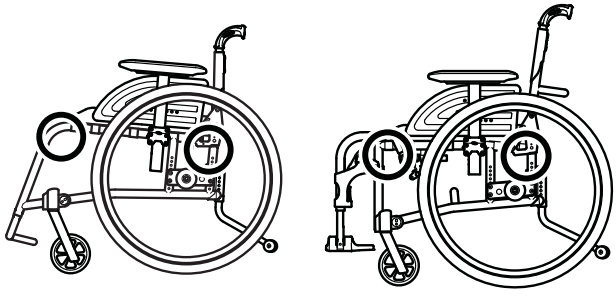
Failure to comply with instructions given may result in personal injury and/or product damage.

- Check each of the following before using the wheelchair:
  - that all parts are attached securely to the frame
  - that all wheels and knobs are properly tightened
  - that all brakes and anti-tip devices function correctly

- Never lift the wheelchair by the detachable armrests, footrests, backrest bar or by the adjustable push handles.
- Always apply the brake before getting into or out of the chair.
- Never stand on the footplates when getting into or out of the chair, because of the risk of tipping.
- Changing the seat angle can give an increased risk of tipping over.
- The hand rims may become hot due to friction, and this may cause injury to your hands.
- Use extensively the anti-tip device
- Remember that the effectiveness of the carer-operated brake is reduced in wet and slippery conditions, as well as when on a slope.
- Be careful to ensure that the drive wheels are securely attached.
- Drive wheels are not to be detached while the user is sitting in the chair.
- The more the backrest cover's Velcro straps are slackened the greater the risk of tipping the wheelchair becomes.
- Surfaces of the wheelchair like frame parts or upholstery can with long time exposure to sun reach temperatures over 41 °C.

LIFTING THE WHEELCHAIR

Always lift the wheelchair by grabbing the frame at the points shown in the picture. Never lift the wheelchair by the removable armrests, the footrests or the backrest bar. Ensure that the backrest and push handles are securely in place. Also read the chapter Safety instructions/Propelling techniques.



Intended use

- Invacare® XLT is a manual wheelchair aimed for those who use the wheelchair for a longer period of time, i.e. several hours in a row.
- Invacare® XLT is designed for the user who can manoeuvre the wheelchair him/herself, as well as for the user who requires assistance.
- Invacare® XLT is versatile and has accessories that makes it possible to adjust the sitting posture so it stays comfortable for several hours.
- Invacare® XLT has many adjustment possibilities. With the right adjustments, carried out by a professional, the wheelchair can be set up specifically for a user and according to the requirements of a possible assistant.
- Invacare® XLT can be used both indoors and outdoors on level ground and paved areas. We recommend the larger wheels when the wheelchair is used on uneven ground.
- Note that there is an increased risk that the Invacare® XLT could tip backwards, when being wheeled uphill, especially when the incline is more than 8°. Or if the rear wheels are mounted in their formost position on the rear wheel attachment. The effect of mounting the rear wheels in their foremost position is that the chair will be easier to manoeuvre. However, there is the increased risk of tipping backwards. Therefore the use of anti tip devices to achieve better stability is strongly recommended.
- Invacare® XLT is designed to have a seat cushion on the seat. The seat cushion improves the user's body posture and makes it possible to sit comfortably for longer periods of time.
- Invacare® XLT with a backrest, adjusted to a height of minimum 40 cm, a neckrest and a pelvic belt can be used as a seat in a vehicle. For other configurations the user must transfer to the normal seat in a car or bus.

Daily performance check

Check that the following parts are securely fitted on the wheelchair and operational:

- Wheels
- Brakes
- Backrest
- Anti-tip device, if fitted
- Push handles, if fitted
- Footrests or footbow
- Pelvic belt, if fitted
- Neck-/headrest, if fitted

UPHOLSTERY AND FRAME COLOURS

Backrest cover	Black Nylon TR33
Seat cushion cover	Black Jemima TR18 (standard)
Frame colours	Black, Grey, Blue, Red, Blasted titanium and Orange

EQUIPMENT AND ACCESSORIES

Invacare® XLT has a wide range of accessories and options. Some of the accessories may not be available in all countries and all accessories are not available for all models.

Backrest
Tension adjustable
Angle adjustable, fixed or height adjustable
Narrow back

Seat
Tension and depth adjustable seat

Seat cushions
Standard 5 cm, Flotech/Contour

Legrests
Footbow rigid**
Footbow rigid with footplate**
Footrest one piece, flipup, angle adjustable
Footrest, high mounted**
80° & 90° fixed legrest*
Angle adjustable legrest*
Fixed footplate*
Angle and depth adjustable footplate*

Armrests
Flip-up armrest with long or short pad
Height adjustable armrest "Rio", with long or short pad
Hemi armrest
Comfort armrest***

Castors
75 - 125 mm Dynamic
75 - 180 mm Swing, Active
140 - 180 Max

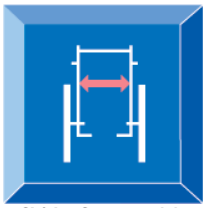
Rear wheels
22", 24", 25", 26" pneumatic or puncture-proof
24", one-arm drive

Brake
User-brake (3 types)
Carer-operated drumbrake
One-arm brake

Others
Several types of handrims
Spoke guard
Headrest
Neckrest
Headrest with cheek support
Anti-tip device
Trunk Support
Reflectors Kit
Table Tray
Pump
Cane holder
Tool kit
Various push handles
Pelvic belt
Mudguard
Sideguard
Step tube
Brake lever extension
Mounting brackets for E-Motion and E-Fix

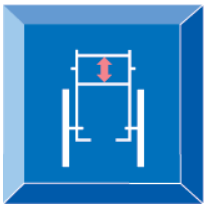
* for XLT Swing only
** for XLT Active, Dynamic and Max
*** for XLT Max only

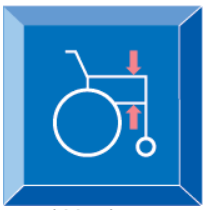
Technical data


SW= Seat width

SD= Seat depth

SH=Seat height

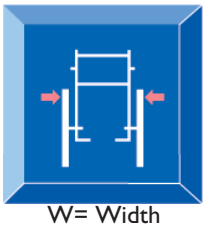

BH= Backrest height


AH= Armrest height

LL= Legrest lenght

SA= Seat angle

BA= Bacrest angle


W= Width

H= Height

L= Lenght

M=Weight

ML= Max user weight

TW= Transport weight

Crash test**

* Fixed/Angle adjustable backrest

**Our wheelchairs are crash tested according to the ISO norm 7176-19 (Wheeled mobility devices for use as seats in motor vehicles) See the chapter on Transport for more details. Wheelchair users should however transfer to the vehicle seat and use the vehicle installed restraint system whenever it is feasible.

	Active	Dynamic	Swing	Max
SW (cm)	35,5/38/40,5/43/45,5/48	35,5/38/40,5/43/45,5/48	33/35,5/38/40,5/43/45,5/48/50,5	50,5 55,5, 60,5 cm
SD (cm)	36-40/41-45/46-50	36-40/41-45/46-50	36-40/41-45/46-50	50, 55, 60 cm
SH (cm)*	40-52	40-50	39-52	44-52 cm
BH (cm)*	20-35 / 30-49	20-35 / 30-49	20-35 / 30-49	40-49 cm
AH (cm)	21-31	21-31	21-31	
LL (cm)*	38-50,5	35,5-48,5	28-51	38-48 cm
SA (°)	0°-14°	0°-14°	0°-14°	0°-14°
BA (°)	±10°	±10°	±10°	±10°
W (cm)**	Seat width + 20 cm	Seat width + 20 cm	Seat width + 20 cm	Seat width + 21 cm
H (cm)	61-105	61-105	61-105	79-110 cm
L (cm)	83-103	73-88	82-123	93-108 cm
M (kg)	9,8	9,8	11,3	21 kg
ML (kg)	135	135	135	180kg
TW (kg)***	6	6	6	13,3 kg

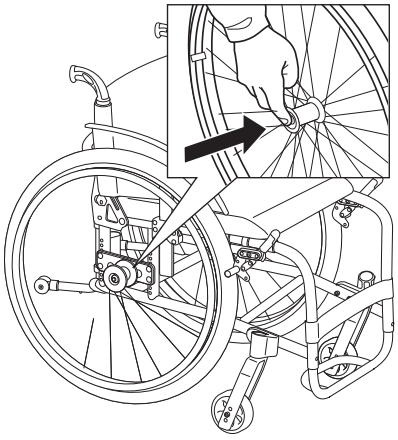
* without seat cushion
** with 0° camber
*** without rearwheels and accessories

Delivery check

Check that all components comply with the delivery note. Any damage incurred during transport should be reported immediately to the delivery company. Retain all packaging until the transport company has inspected the consignment and an agreement has been reached.

Assembly

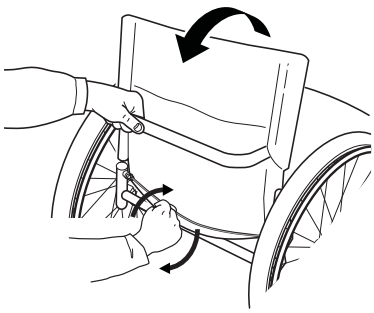
1.



1. Attach the rear wheels by pressing the button in the centre of the hub whilst simultaneously sliding the axle onto the rear wheel position attachment of the positioning plate.

⚠ It is very important that you check that the locking pin has actually locked the wheel into position when the centre button has been released. Take hold of the wheels and try to detach them. This should NOT be possible.

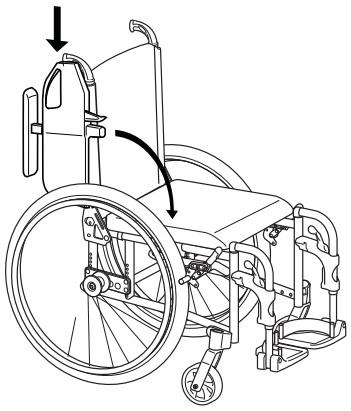
2.



2. Unfold the backrest by grabbing the wire at the lower back of the backrest and twisting it to release the backrest locking pins. Pull the backrest backwards/uppwards until it is fixed into place. Check that it is fixed properly. The XLT Max does not have a locking function. Just pull the backrest upwards and check that it is fixed in place.

⚠ Be careful not to trap your fingers between the frame and the backrest attachments.

3.

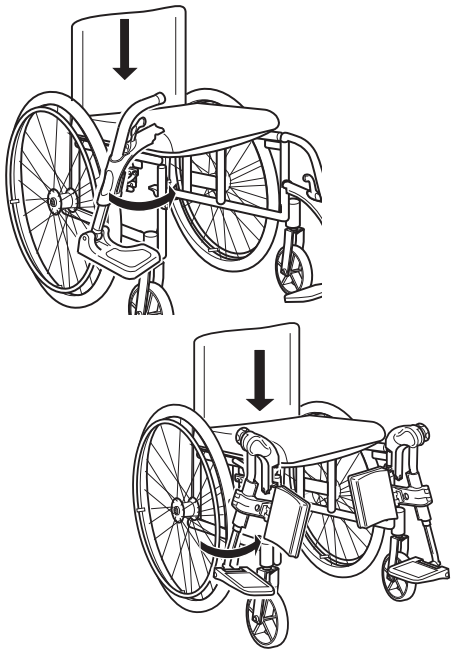


3. Armrests
Insert the armrests by fitting them into the attachments on the backrest frame and then swinging them down into position.

⚠ Do not place your fingers on the seat frame.

When using detachable armrests, just push them down into place in their receiver.

4.



4. Legrests (XLT Swing)

Attach the legrests by pushing the tube at the upper part of the legrests down into the tubes on the wheelchair. You must angle the legrests outwards when inserting them.

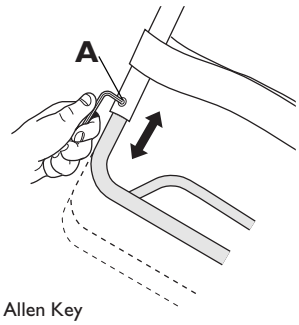
Lock the legrests by turning them inwards. The legrests are automatically locked so there is no risk of them coming off the wheelchair.

Be careful not to trap your fingers between frame and legrest.

Adjustments

FOOTBOW

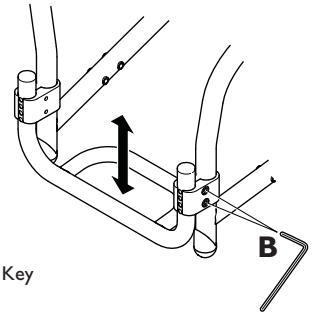
It is important to adjust the footbow, footrests, legrests, footplates and calf pads to obtain a good seating position



Tools: 4 mm Allen Key
10 mm fixed spanner

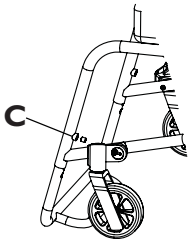
Height adjustment, footbow
Loosen the screws (A) using an Allen key, remove them, and adjust the footbow to the correct height. Retighten the screws and adjust the calf-strap.

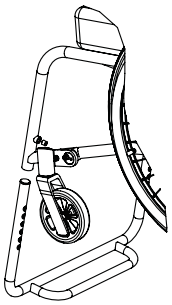
! Important
The distance between the lowest part of the footrest and the floor or ground must be at least 40 mm.

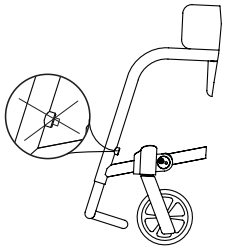


Tools: 5 mm Allen Key

High mounted footbow
Loosen the screws (B) using an Allen key and adjust the clamp and footbow to a suitable height. Retighten the screws and adjust the calf-strap.







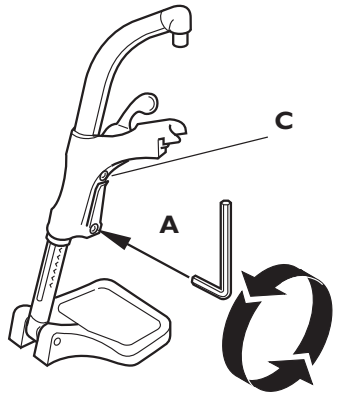
Tools: 5 mm Allen Key

Footbow XLT Max
Loosen the screws (C) using an Allen key and adjust the footbow to a suitable height using one of six holes on the footbow tube. Retighten the screws and adjust the calf-strap. Make sure that the screws do not protrude out of the casing.

Warning!
Risk of injury
The footbow can fall out if the screws are not tightened properly. Make sure that both screws are positioned in the holes on the tube.

! Important
The distance between the lowest part of the footrest and the floor or ground must be at least 40 mm.

FIXED LEGRESTS



Tools: 5 mm Allen Key

Height adjustment
Adjust the height of the footrests by loosening the screw (A) with an Allen key. When adjusting the height a clicking sound will occur. One ”click” is one step in height. Pull the legrest until you have obtained the correct height and the screw is caught by one of the recesses on the legrest tube. Then retighten screw.

NOTE! Do not adjust the upper screw (C).

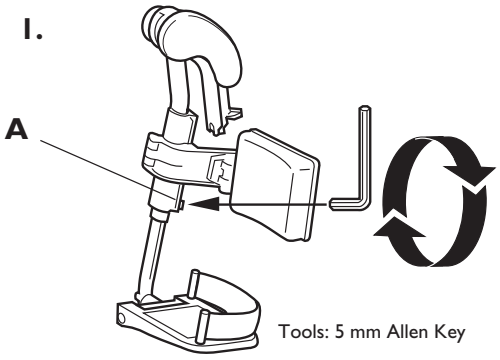
The distance between the lowest part of the footrest and the floor or ground must be at least 40 mm.

ANGLE ADJUSTABLE LEGRESTS

Angle adjustable legrests support the legs and reduce pressure. The legrests can be used for bandaged legs, but not for legs in plaster casts. The legrests must always be fitted with calf pads, footplates and heel straps.

It is important to adjust the height and angle of the legrests to obtain a good seating position.

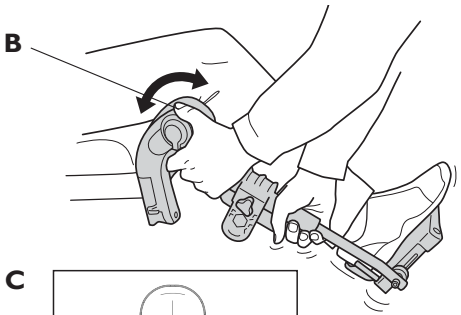
1.



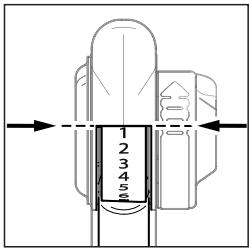
Tools: 5 mm Allen Key

1. Height adjustment
Loosen screw (A) with an Allen key. Adjust the legrest into a suitable height and the screw is caught by one of the recesses on the legrest tube. Then retighten the screw.

2.



C

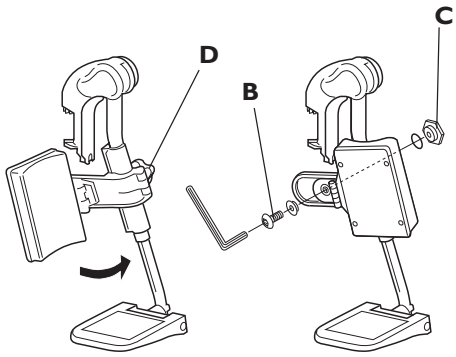


2. Angle adjustment
Pull the lever (B) with one hand while supporting the legrest with your other hand. When a suitable angle is obtained, let go of the lever and the legrest will look into one of seven preset positions (C).

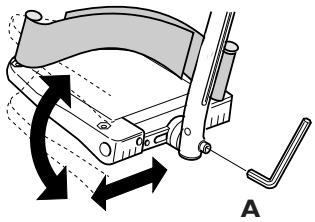
Do not place anything heavy, or let children sit on the legrest. It may cause damage to the mechanism.

The distance between the lowest part of the footrest and the ground must be at least 40 mm.

CALF PADS/ FOOTPLATES



Tools: 5 mm Allen Key



Tools: 5 mm Allen Key

Calf pads
The calf pads can be fitted in two different depth positions. Swing the pad forwards. Unscrew screw (B) using an Allen key. Remove the large nut (C) on the reverse side and place it in the other attachment hole. Move the calf pad to the new position and secure it into place with the screw.

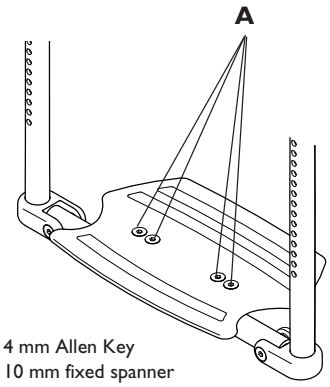
The height of the calf pads can easily be adjusted using the handwheel (D).

Depth- and angle adjustable footplates
Adjust the angle and the depth by loosening the screw (A) at the footplate attachment with a 5mm Allen key. Adjust the footplate to the correct position and retighten the screw.

Do not place anything on the footplate when the screws have been loosened.

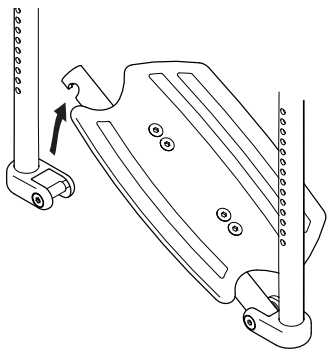
FOOTRESTS ONE-PIECE

1.



Tools: 4 mm Allen Key
10 mm fixed spanner

2.



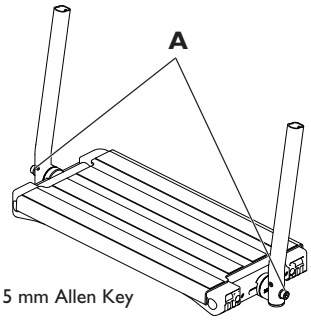
1. Footrest, one piece
Adjust the angle by loosening the four screws (A) on the footplate attachment with a 4 mm Allen key. Adjust the footplate to the correct position and retighten the screws.

Do not place anything on the footplate when the screws have been loosened.

2. The footrest can be flipped up. Lift the right side of the footrest upwards.

Be careful not to trap your fingers between the footrest and the receiver when you fold down the footrest.

1.

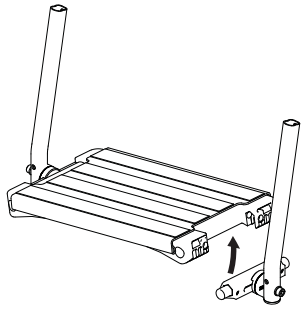


Tools: 5 mm Allen Key

1. Footrest, one piece (XLT Swing)
Adjust the angle and the depth by loosening the two screws (A) on the footplate attachment with a 5 mm Allen key. Adjust the footplate to the correct position and retighten the screws.

Do not place anything on the footplate when the screws have been loosened.

2.

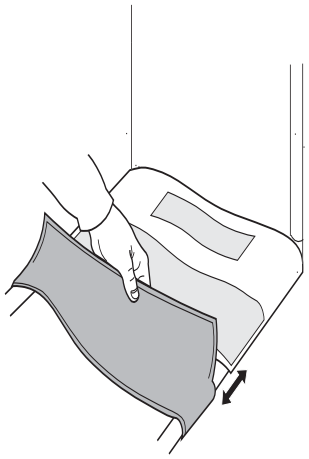


2. The footrest can be flipped up. Lift the left side of the footrest upwards.

Be careful not to trap your fingers between the footrest and the receiver when you fold down the footrest.

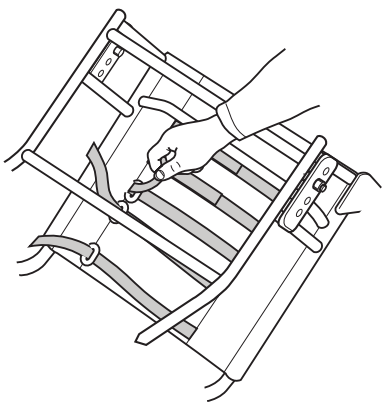
SEAT

1.



1. Adjusting the seat depth
Lift up the front part, slide into required depth.

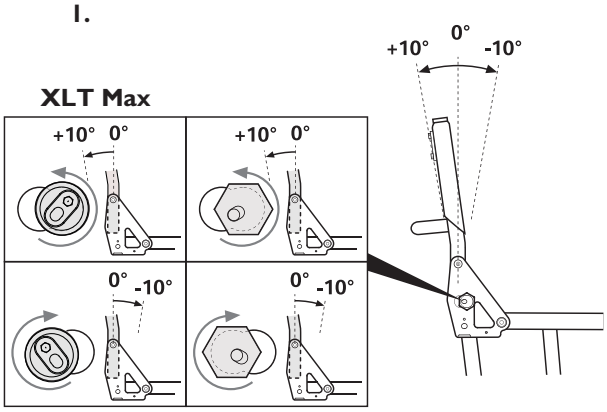
2.



2. Adjusting the shape (tension adjustable seat)
Use the straps underneath the seat to adjust the shape of the seat. Always have a cushion on the seat when testing its adjusted shape.

BACKREST

1.

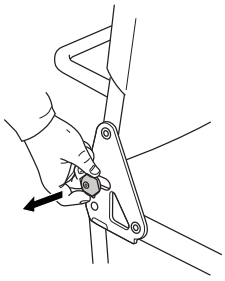


Angle adjustment

1. The backrest can be mounted in two different positions, each with the possibility to change the angle of the backrest. The angle is infinitely variable by ±10 degrees.

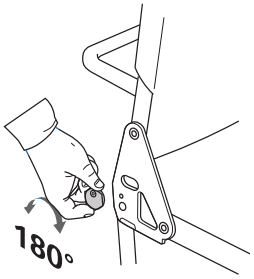
The backrest tube has an 8 degree bend towards the back.

2.



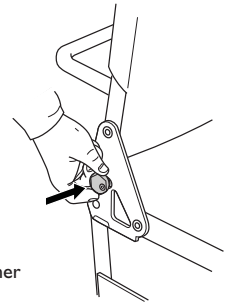
2. If you want to tilt the backrest forwards, position the eccentric plate in the position furthest back (as in the illustration). You can then adjust the tilt of the backrest to maximum –10°.

3.



3. If you want to tilt the backrest backwards, position the eccentric plate in the position furthest to the front. You can then adjust the angle to maximum +10°.

4.

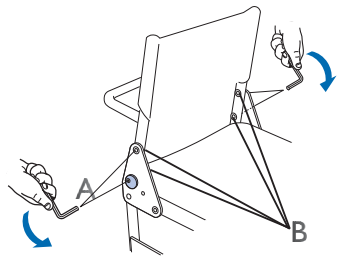


Tools:
4 mm Allen Key
10 mm fixed spanner

4 Move the eccentric plate by loosening the socket cap screw on the plate. Hold the inner nut firmly in place using a 10 mm fixed spanner. Remove the plate, push the backrest to the desired angle, move the plate forwards or backwards and mount it in that position. Hold the nut steady from the inside, and retighten the socket cap screw with the Allen key.

Angle adjustment, fine adjustments
When you have decided the direction in which you want to tilt the backrest, it is time to make the fine adjustments, i.e. adjusting the backrest to suit your body. Proceed as follows:

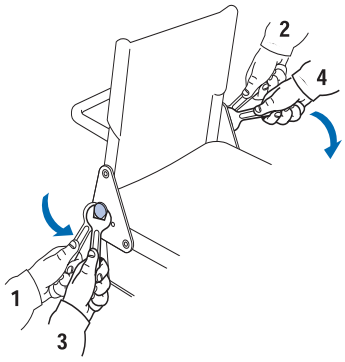
1.



Tools: 4 mm Allen key
10 mm fixed spanner

1. Loosen the four nuts (B) on the inside of the backrest tubes 1- 2 turns with a 10 mm fixed spanner. Hold screws (A) firmly in place with a 4 mm Allen key.

2a.

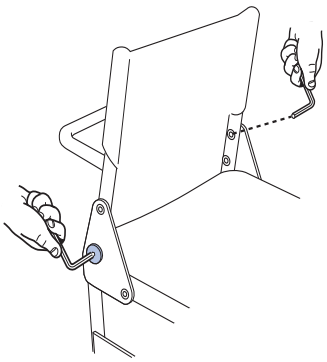


Tools: 24 mm fixed spanner

2a. Then, using a 24 mm fixed spanner, turn the plates – a little at a time, first on one side of the chair, then on the other side. By this alternating procedure, you can adjust the tilt of the backrest.

Note! You must alternate between the two plates whenever you turn them, otherwise, the backrest could become twisted, and its ergonomic advantages will be lost.

2b.

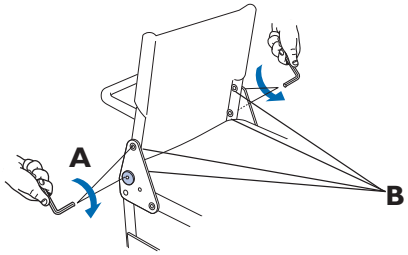


Tools: 5 mm Allen key

2b. XLT Max
Then, using a 5 mm Allen key, turn the plates – a little at a time, first on one side of the chair, then on the other side. By this alternating procedure, you can adjust the tilt of the backrest.

Note! You must alternate between the two plates whenever you turn them, otherwise, the backrest could become twisted, and its ergonomic advantages will be lost.

3.

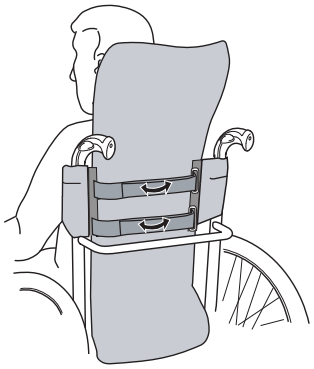


Tools: 4 mm Allen key
10 mm fixed spanner

3. Once you have found the right position, retighten the nuts (B) on the inside. Hold the screws (A) firmly in place with the Allen key.

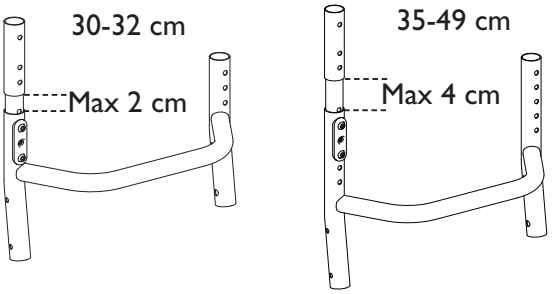
⚠ The tip risk increases the further back the backrest is tilted. We recommend the use of anti-tip devices.

4.



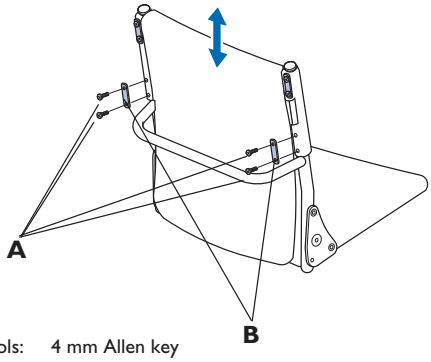
4. Adjust the shape of the backrest by adjusting the Velcro straps.
The user should be seated in the chair when the Velcro straps are adjusted. When adjustment is complete fold the backcloth back into position and secure it with the Velcro straps.

⚠ When you loosen the backrest, the tip-risk increases. We recommend the use of anti-tip devices.



Height adjustment
A backrest extension can be used for adjustable backrest heights and to obtain heights over 35 cm. Two different extenders are available, one for heights 30-32 cm and one for heights 35-49 cm.

! Important
Observe that the extenders may not be raised more than 2 or 4 cm.

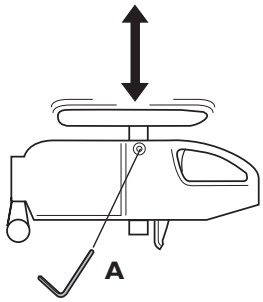


Tools: 4 mm Allen key

Loosen and remove screws (A) and the small plastic bracket (B) on the back of the back support. Adjust the backrest extension to the desired height and refit the screws.

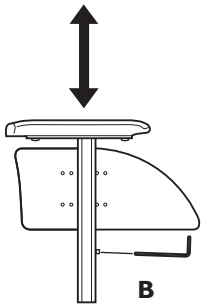
ARMRESTS/MUDGUARD

1.



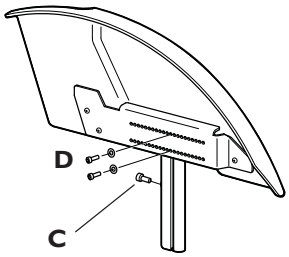
Tools: 5 mm Allen key.

2.



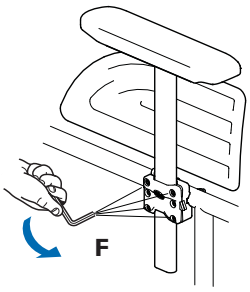
Tools: 5 mm Allen key.

3-4.



Tools: 3 mm Allen key
5 mm Allen key

5.



Tools: 5 mm Allen key.

Adjusting the height of the armrests

1. **Flip up armrest**
   If your chair is equipped with armrests that can be raised or lowered, this is achieved by loosening the screw (A), moving the armrest into the required position and retightening the screw.

   When adjusting the height, do not place your fingers between armrest pad and side plate as they may get trapped.

2. **Detachable armrest**
   If your chair is equipped with armrests that can be raised or lowered, this is achieved by pulling up the armrest and loosening the screw (B) under the armrest. Move the screw up or down to the desired position and retighten the screw. Lower the armrest again.

   When adjusting the height do not place your fingers between seat tube and side plate as they may get trapped.

3. **Mudguard**
   Adjust the height of the mudguard by pulling up the mudguard and loosening the screw (C). Move the screw up or down to the desired position and retighten the screw. Insert the mudguard again in it's attachment.

   When adjusting the height do not place your fingers between seat tube and side plate as they may get trapped.

4. To adjust the depth of the mudguard, unscrew screws (D) using an Allen key. Move the mudguard into the required position and fasten the screws again.

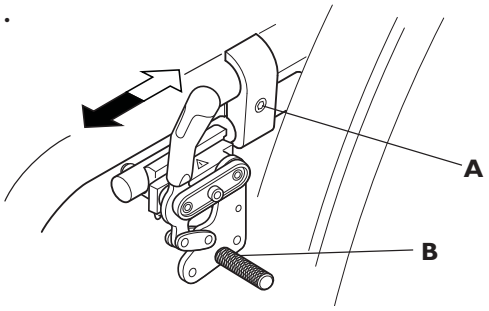
5. **Adjusting the play**
   The armrests and mudguards are equipped with adjustable supports that enables you to reduce the play when pulling up or pushing down the tubes. Tighten or loosen the screws (F) in the four corners as needed.

   Take care not to loosen the two middle screws. These attach the supports to the frame.

   Take care that your fingers do not get caught between armrest/mudguard and tyre.

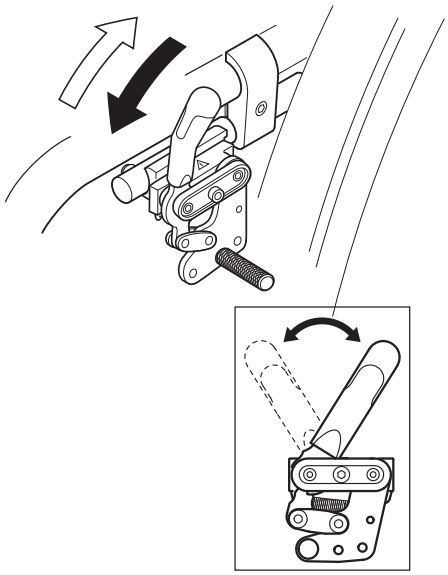
BRAKES

1.

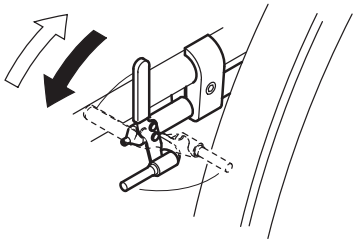


Tool: 5 mm Allen key

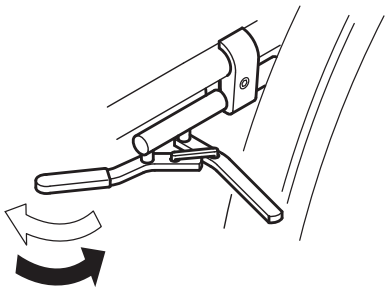
2.



3.



4.



Adjusting the brake

1. Check that the tyres are inflated to the correct air pressure as indicated on the side of the tyre. Then use an Allen key to loosen the screw (A) and slide the brake and brake attachement to the desired position and tighten. The correct distance between the brake pin (B) and the tyre, when the brake is disengaged, is approx. 15 mm. The brake pin should be in a horizontal position.

Incorrect adjustments or use of the brake can reduce their performance.

2. **Using the Standard brake**
   Apply the brake by pushing the brake lever forwards until it reaches the stopper.

   Release the brake by pulling back the brake lever.

Take care not to trap your fingers between brake shaft and tyre.

When the standard brake is applied, the brake lever can be pushed backwards without disengaging the brakes.
This is to prevent the brakes from accidentally disengaging during transfer to and from the wheelchair.

3. **Using the Performance brake**
   Apply the brake by pushing the brake lever forwards until it reaches the stopper.

   Release the brake by pulling back the brake lever.

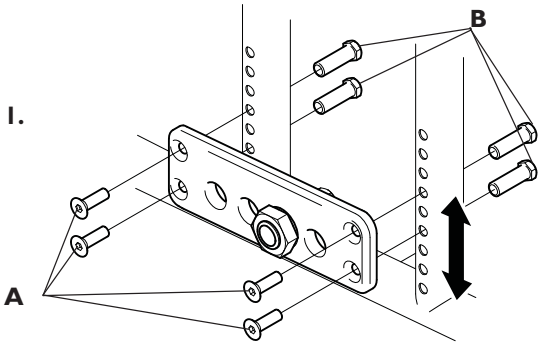
Take care not to trap your fingers between brake shaft and tyre.

4. **Using the Active brake**
   Apply the brake by pulling the brake lever forwards (on the side of, or between your legs) until it reaches the stopper.

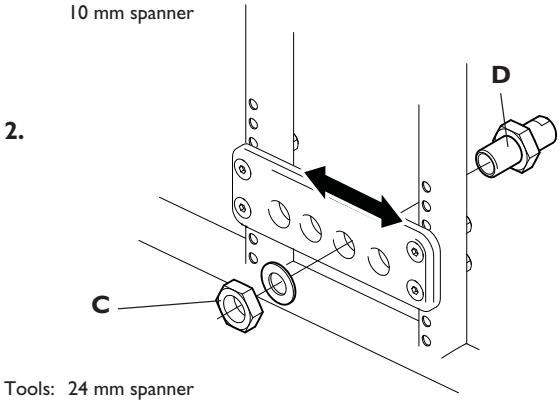
   Release the brake by pushing the brake lever back (on the side of, or between your legs).

Take care not to trap your fingers between brake shaft and tyre.

REAR WHEEL ATTACHMENT



Tools: 5 mm Allen Key
10 mm spanner



Tools: 24 mm spanner

By changing the position of the rearwheel on the rearwheel attachment you can alter both the rear seat height and the manoeuvrability/stability of the wheelchair. The further forward the rearwheel is positioned, the more manoeuvrable your chair becomes, but with reduced stability. For seatheights and positions, please refer to the seat height tables starting on page 24.

1. To alter the height position of the rearwheel plate, use an Allen key to hold the screws (A) in place and loosen nuts (B) with a fixed spanner. Choose the new position and fasten the screws.

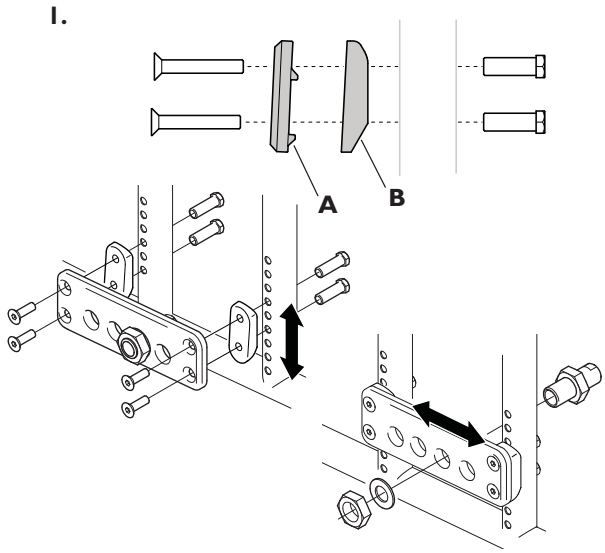
2. To move the rearwheel (either backwards or forwards) on the rearwheel attachment, first remove the nut (C), adjust the axle housing (D) to the required position and then refasten the nut.

The tip risk increases if the rear wheels are located in front of the backrest. Use anti-tip devices.

Always remember to adjust the brakes, when the rearwheel position has been changed.

When you have fitted the wheels in the correct position, it is important that you check thoroughly that the nuts and screws are tightened securely. The axle housing should be tightened with a manual and dynamometric wrench calibrated to 40Nm. This is important for your own safety!

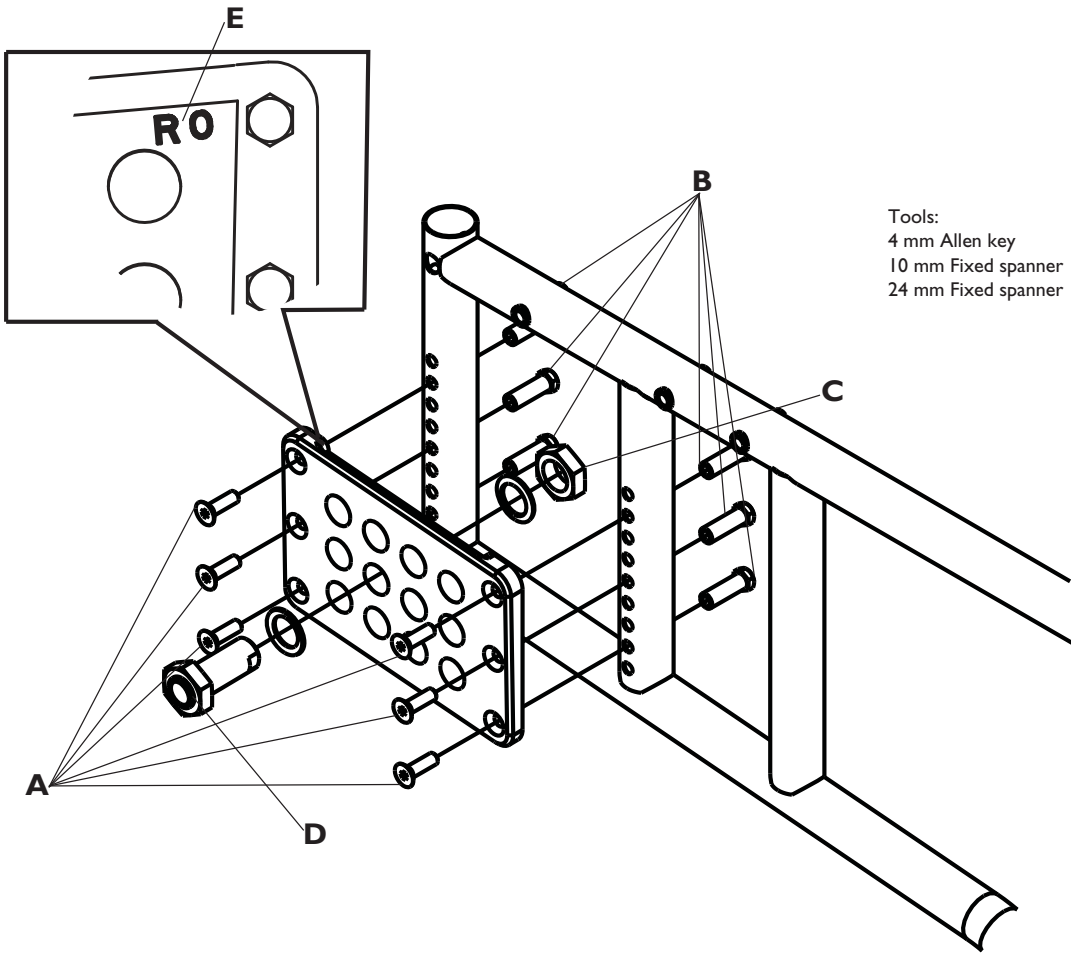
CAMBER



The cambered rearwheel plate is mounted and adjusted in the same way as the original rearwheel plate, see above.

1. Make sure that the rib (A) on the rearwheel plate and the chamfer (B) on the camber block is placed downwards.

REAR WHEEL ATTACHMENT XLT MAX



Tools:
4 mm Allen key
10 mm Fixed spanner
24 mm Fixed spanner

By changing the position of the rearwheel on the rearwheel attachment you can alter both the rear seat height and the manoeuvrability/stability of the wheelchair. The further forward the rearwheel is positioned, the more manoeuvrable your chair becomes, but with reduced stability. For seatheights and positions, please refer to the seat height table on page 32.

1. To alter the height position of the rearwheel plate, use an Allen key to hold the screws (A) in place and loosen nuts (B) with a fixed spanner. Choose the new position and fasten the screws.

2. To move the rearwheel (either backwards/forwards or up/down) on the rearwheel attachment, first remove the nut (C), adjust the axle housing (D) to the required position and then refasten the nut.

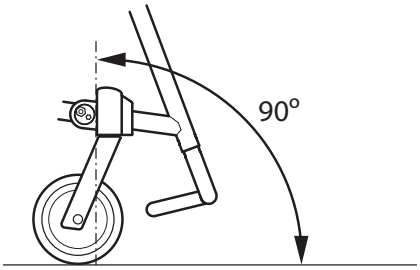
3. You adjust the camber (0° or 2°) by turning the rear wheel fixation plate. See the markings (E) on the inside of the rearwheel plates. R0 stands for right side, 0°. The marking with the desired camber should be placed in the back upper corner of the rearwheel plate.

The tip risk increases if the rear wheels are located in front of the backrest. Use anti-tip devices.

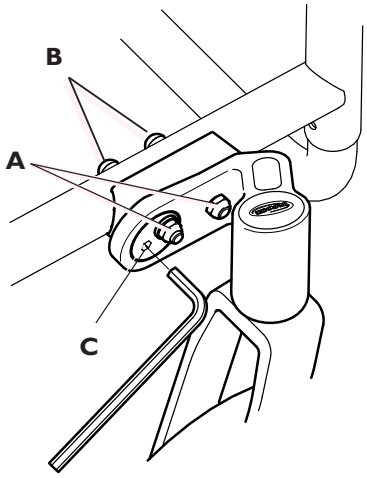
Always remember to adjust the brakes, when the rearwheel position has been changed.

When you have fitted the wheels in the correct position, it is important that you check thoroughly that the nuts and screws are tightened securely. The axle housing should be tightened with a manual and dynamo-metric wrench calibrated to 40Nm. This is important for your own safety!

CASTOR WHEELS



The manoeuverability of the wheelchair is very much dependent on the castors and their position relative to the ground surface. The angle between the castor housing and the ground should be 90 degrees.



Tools: 4 mm Allen key
5 mm Allen key
10 mm fixed spanner

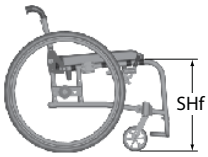
Adjusting the castor angle
To adjust the castor angle, loosen nuts (A) with 1-2 turns with a fixed spanner, while holding screws (B) firmly in place with a 4 mm Allen key.

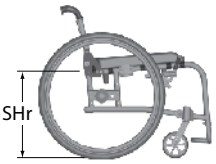
Adjust the castor housing to desired angle by inserting the 5 mm Allen key in the hexagon hole (C) and turning it to the desired angle. Retighten nuts (A).

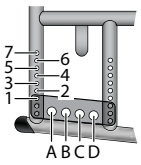
Check that the castor is securely fitted after replacement.

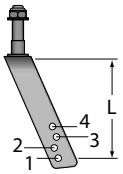
SEAT HEIGHT TABLES

XLT ACTIVE





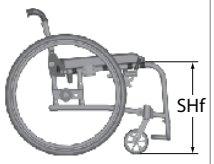


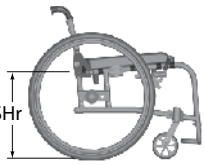


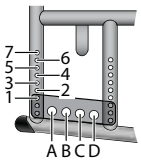
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
22"											
40				40	39	38		2			75 (3")
41			41	40	39	38		1			75 (3")
41			41	40	39	38		2			100 (4")
42			41-42	40	39	38		1			100 (4")
43		43	41-42	40	39	38			2		75 (3")
43		43	41-42	40	39	38			4		125 (5")
43		43	41-42	40	39	38			3		100 (4")
43		43	41-42	40	39	38		1			125 (5")
44	44	43	41-42	40	39	38			4		140 (5,5")
44	44	43	41-42	40	39	38			1		75 (3")
44	44	43	41-42	40	39	38			3		125 (5")
44	44	43	41-42	40	39	38			2		100 (4")
45	44	43	41-42	40	39	38			3		140 (5,5")
45	44	43	41-42	40	39	38			1		100 (4")
45	44	43	41-42	40	39	38			2		125 (5")
45	44	43	41-42	40	39	38			3		150 (6")
46	44	43	41-42	40	39	38			2		140 (5,5")
47	44	43	41-42	40	39	38			1		125 (5")
47	44	43	41-42	40	39	38			2		150 (6")
47	44	43	41-42	40	39	38				2	75 (3")
47	44	43	41-42	40	39	38				3	100 (4")
47	44	43	41-42	40	39	38				4	125 (5")
47	44	43	41-42	40	39				1		140 (5,5")
48	44	43	41-42	40	39					4	140 (5,5")
48	44	43	41-42	40	39				1		150 (6")
48	44	43	41-42	40	39				2		180 (7")
48	44	43	41-42	40						1	75 (3")
48	44	43	41-42	40						2	100 (4")
48	44	43	41-42	40						3	125 (5")
48	44	43	41-42	40						4	150 (6")
49	44	43	41-42	40						3	140 (5,5")
49	44	43	41-42	40					1		180 (7")
49	44	43	41-42							1	100 (4")
50	44	43	41-42							2	125 (5")
50	44	43	41-42							3	150 (6")
50	44	43								4	180 (7")
50	44	43								2	140 (5,5")
51	44	43								1	125 (5")
51	44	43								2	150 (6")
51	44	43								3	180 (7")
51	44	43								1	140 (5,5")
52	44	44								1	150 (6")
52	44	44								2	180 (7")

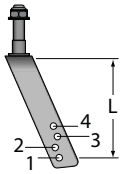
* = Not applicable
SD =seat depth

XLT ACTIVE





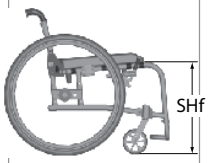


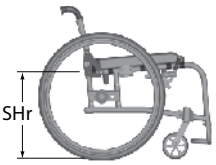


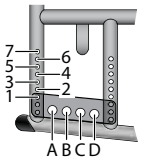
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
24"/25" Low profile											
40						40		2			75 (3")
41					41	40		1			75 (3")
41					41	40		2			100 (4")
42					41-42	40		1			100 (4")
43				43	41-42	40			2		75 (3")
43				43	41-42	40			4		125 (5")
43				43	41-42	40			3		100 (4")
43				43	41-42	40		1			125 (5")
44				43	41-42	40			4		140 (5,5")
44				43	41-42	40			1		75 (3")
44			44	43	41-42	40			3		125 (5")
44			44	43	41-42	40			2		100 (4")
45		45	44	43	41-42	40			3		140 (5,5")
45		45	44	43	41-42	40			1		100 (4")
45		45	44	43	41-42	40			2		125 (5")
45		45	44	43	41-42	40			3		150 (6")
46	46	45	44	43	41-42	40			2		140 (5,5")
47	46-47	45	44	43	41-42	40			1		125 (5")
47	46-47	45	44	43	41-42	40			2		150 (6")
47	46-47	45	44	43	41-42	40				2	75 (3")
47	46-47	45	44	43	41-42	40				3	100 (4")
47	46-47	45	44	43	41-42	40				4	125 (5")
47	46-47	45	44	43	41-42	40			1		140 (5,5")
48	46-47	45	44	43	41-42	40				4	140 (5,5")
48	46-47	45	44	43	41-42	40			1		150 (6")
48	46-47	45	44	43	41-42	40	* D1-4 (SD40)		2		180 (7")
48	46-47	45	44	43	41-42	40				1	75 (3")
48	46-47	45	44	43	41-42	40				2	100 (4")
48	46-47	45	44	43	41-42	40				3	125 (5")
48	46-47	45	44	43	41-42	40				4	150 (6")
49	46-47	45	44	43	41-42	40				3	140 (5,5")
49	46-47	45	44	43	41-42	40			1		180 (7")
49	46-47	45	44	43	41-42	40				1	100 (4")
50	46-47	45	44	43	41-42	40				2	125 (5")
50	46-47	45	44	43	41-42					3	150 (6")
50	46-47	45	44	43	41-42					4	180 (7")
50	46-47	45	44	43	41-42					2	140 (5,5")
51	46-47	45	44	43	41-42					1	125 (5")
51	46-47	45	44	43	41-42					2	150 (6")
51	46-47	45	44	43	41-42		* D1-5 (SD40)			3	180 (7")
51	46-47	45	44	43						1	140 (5,5")
52	46-47	45	44	43						1	150 (6")
52	46-47	45	44	43			* D1-3 (SD40)			2	180 (7")

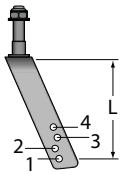
* = Not applicable
SD =seat depth

XLT ACTIVE





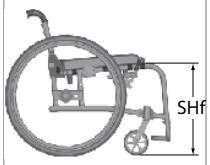


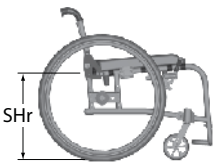


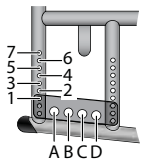
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
26" Low profile											
41						41		1			75 (3")
41						41		2			100 (4")
42					42	41		1			100 (4")
43					42-43	41			2		75 (3")
43					42-43	41			4		125 (5")
43					42-43	41			3		100 (4")
43					42-43	41		1			125 (5")
44				44	42-43	41			4		140 (5,5")
44				44	42-43	41			1		75 (3")
44				44	42-43	41			3		125 (5")
44				44	42-43	41			2		100 (4")
45			45	44	42-43	41			3		140 (5,5")
45			45	44	42-43	41			1		100 (4")
45			45	44	42-43	41			2		125 (5")
45			45	44	42-43	41	* D4 (SD40)		3		150 (6")
46		46	45	44	42-43	41			2		140 (5,5")
47	47	46	45	44	42-43	41			1		125 (5")
47	47	46	45	44	42-43	41	* D2 (SD40)		2		150 (6")
47	47	46	45	44	42-43	41				2	75 (3")
47	47	46	45	44	42-43	41				3	100 (4")
47	47	46	45	44	42-43	41				4	125 (5")
47	47	46	45	44	42-43	41			1		140 (5,5")
48	47-48	46	45	44	42-43	41				4	140 (5,5")
48	47-48	46	45	44	42-43	41	* D2 (SD40)		1		150 (6")
48	47-48	46	45	44	42-43	41	* D2-6 (SD40)		2		180 (7")
48	47-48	46	45	44	42-43	41				1	75 (3")
48	47-48	46	45	44	42-43	41				2	100 (4")
48	47-48	46	45	44	42-43	41				3	125 (5")
48	47-48	46	45	44	42-43	41				4	150 (6")
49	47-48	46	45	44	42-43	41				3	140 (5,5")
49	47-48	46	45	44	42-43	41	* C1,D1-6 (SD40)		1		180 (7")
49	47-48	46	45	44	42-43	41				1	100 (4")
50	47-48	46	45	44	42-43	41				2	125 (5")
50	47-48	46	45	44	42-43	41	* D1 (SD40)			3	150 (6")
50	47-48	46	45	44	42-43	41	* D1-6 (SD40)			4	180 (7")
50	47-48	46	45	44	42-43	41				2	140 (5,5")
51	47-48	46	45	44	42-43	41				1	125 (5")
51	47-48	46	45	44	42-43	41				2	150 (6")
51	47-48	46	45	44	42-43	41	*D1-6 (SD40)			3	180 (7")
51	47-48	46	45	44	42-43	41				1	140 (5,5")
52	47-48	46	45	44	42-43					1	150 (6")
52	47-48	46	45	44	42-43		* D1-6 (SD40)			2	180 (7")

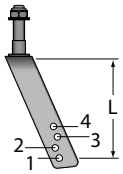
* = Not applicable
SD =seat depth

XLT DYNAMIC





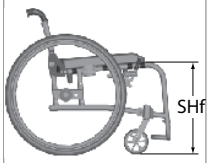


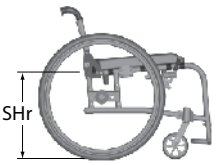


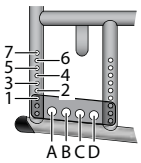
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
22"											
39					39	38		2			75 (3")
40				40	39	38		1			75 (3")
41				40	39	38		2			100 (4")
42			41-42	40	39	38		1			100 (4")
43		43	41-42	40	39	38			2		75 (3")
43		43	41-42	40	39	38			4		125 (5")
43		43	41-42	40	39	38			3		100 (4")
43		43	41-42	40	39	38	* D3 (SD40)	1			125 (5")
44		43	41-42	40	39	38			1		75 (3")
44		43	41-42	40	39	38	* D2 (SD40)		3		125 (5")
44	44	43	41-42	40	39	38			2		100 (4")
45	44	43	41-42	40	39	38			1		100 (4")
45	44	43	41-42	40	39	38	* D1 (SD40)		2		125 (5")
46	44	43	41-42	40			* D1 (SD40)		1		125 (5")
47	44	43	41-42	40						2	75 (3")
47	44	43	41-42	40						3	100 (4")
47	44	43	41-42							4	125 (5")
48	44	43	41-42							1	75 (3")
48	44	43	41-42							2	100 (4")
48	44	43	41-42							3	125 (5")
49	44	43	41-42							1	100 (4")
49	44	43	41-42							2	125 (5")
50	44	43								1	125 (5")
24" / 25" Low profile											
40						40		1			75 (3")
41						40		2			100 (4")
42					41-42	40		1			100 (4")
43				43	41-42	40	* D5 (SD40)		2		75 (3")
43				43	41-42	40	* D1-6 (SD40)		4		125 (5")
43				43	41-42	40	* D5 (SD40)		3		100 (4")
43				43	41-42	40	* D1-6 (SD40)	1			125 (5")
44			44	43	41-42	40	* D4-5 (SD40)		1		75 (3")
44			44	43	41-42	40	* D1-6 (SD40)		3		125 (5")
44			44	43	41-42	40	* D4 (SD40)		2		100 (4")
45		45	44	43	41-42	40	* D3-4 (SD40)		1		100 (4")
45		45	44	43	41-42	40	* D3-6 (SD40)		2		125 (5")
46	46	45	44	43	41-42	40	* D2-6 (SD40)		1		125 (5")
47	46-47	45	44	43	41-42	40	* D2-4 (SD40)			2	75 (3")
47	46-47	45	44	43	41-42	40	* D2-4 (SD40)			3	100 (4")
47	46-47	45	44	43	41-42	40	* D2-5 (SD40)			4	125 (5")
48	46-47	45	44	43	41-42	40	* D1-4 (SD40)			1	75 (3")
48	46-47	45	44	43	41-42	40	* D1-4 (SD40)			2	100 (4")
48	46-47	45	44	43	41-42	40	* D1-5 (SD40)			3	125 (5")
49	46-47	45	44	43	41-42		* D1-4 (SD40)			1	100 (4")
49	46-47	45	44	43	41-42		* D1-4 (SD40)			2	125 (5")
50	46-47	45	44	43			* D1-6 (SD40)			1	125 (5")

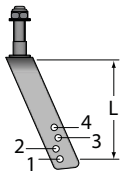
* = Not applicable
SD =seat depth

XLT DYNAMIC





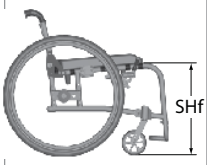


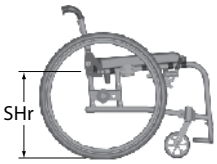


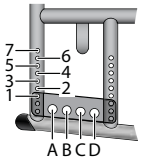
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
26" Low profile											
42						41	* D1-6 (SD40)	1			100 (4")
43					42-43	41	* D1-6 (SD40)		2		75 (3")
43					42-43	41	* D1-6 (SD40)		4		125 (5")
43					42-43	41	* D1-6 (SD40)		3		100 (4")
43					42-43	41	* D1-6 (SD40)	1			125 (5")
44				44	42-43	41	* D1-6 (SD40)		1		75 (3")
44					42-43	41	* D1-6 (SD40)		3		125 (5")
44				44	42-43	41	* D1-6 (SD40)		2		100 (4")
45			45	44	42-43	41	* D1-6 (SD40)		1		100 (4")
45			45	44	42-43	41	* D1-6 (SD40)		2		125 (5")
46		46	45	44	42-43	41	* D1-6 (SD40)		1		125 (5")
47	47	46	45	44	42-43	41	* D1-6 (SD40)			2	75 (3")
47	47	46	45	44	42-43	41	* D1-6 (SD40)			3	100 (4")
47	47	46	45	44	42-43	41	* D1-6 (SD40)			4	125 (5")
48	47-48	46	45	44	42-43	41	* D1-6 (SD40)			1	75 (3")
48	47-48	46	45	44	42-43	41	* D1-6 (SD40)			2	100 (4")
48	47-48	46	45	44	42-43	41	* D1-6 (SD40)			3	125 (5")
49	47-48	46	45	44	42-43	41	* D1-6 (SD40)			1	100 (4")
49	47-48	46	45	44	42-43	41	* D1-6 (SD40)			2	125 (5")
50	47-48	46	45	44	42-43		* D1-6 (SD40)			1	125 (5")

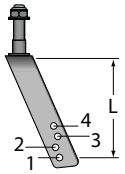
* = Not applicable
SD =seat depth

XLT SWING





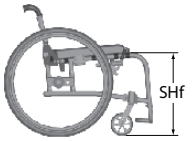


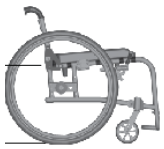


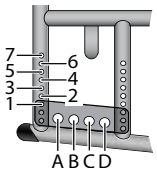
SHf	SHr								L=75	L=110	L=150	mm
	1	2	3	4	5	6	7	*				
22"												
39					39	38			2			75 (3")
40				40	39	38			1			75 (3")
41			41	40	39	38			2			100 (4")
42			41-42	40	39	38			1			100 (4")
43		43	41-42	40	39	38				2		75 (3")
43		43	41-42	40	39	38				4		125 (5")
43		43	41-42	40	39	38				3		100 (4")
43		43	41-42	40	39	38			1			125 (5")
44		43	41-42	40	39	38				4		140 (5,5")
44		43	41-42	40	39	38				1		75 (3")
44		43	41-42	40	39	38				3		125 (5")
44		43	41-42	40	39	38				2		100 (4")
45	44	43	41-42	40	39	38		* D1-2 (SD40)		3		140 (5,5")
45	44	43	41-42	40	39	38				1		100 (4")
45	44	43	41-42	40	39	38				2		125 (5")
45	44	43	41-42	40	39	38		* D1-4 (SD40)		3		150 (6")
46	44	43	41-42	40	39					2		140 (5,5")
47	44	43	41-42	40	39					1		125 (5")
47	44	43	41-42	40	39			* D1-2 (SD40)		2		150 (6")
47	44	43	41-42	40	39						2	75 (3")
47	44	43	41-42	40	39						3	100 (4")
47	44	43	41-42	40	39						4	125 (5")
47	44	43	41-42	40				* D1-2 (SD40)		1		140 (5,5")
48	44	43	41-42	40				* D1-2 (SD40)			4	140 (5,5")
48	44	43	41-42	40				* D1-3 (SD40)		1		150 (6")
48	44	43	41-42	40				* D1-6 (SD40)		2		180 (7")
48	44	43	41-42	40							1	75 (3")
48	44	43	41-42	40							2	100 (4")
48	44	43	41-42	40							3	125 (5")
48	44	43	41-42	40				* D1-2 (SD40)			4	150 (6")
49	44	43	41-42								3	140 (5,5")
49	44	43	41-42					* C1-2,D1-6 (SD40) + D1-2 (SD45)		1		180 (7")
49	44	43	41-42								1	100 (4")
50	44	43	41-42								2	125 (5")
50	44	43	41-42					* D1-2 (SD40)			3	150 (6")
50	44	43	41-42					* D1-6 (SD40)			4	180 (7")
50	44	43									2	140 (5,5")
51	44	43									1	125 (5")
51	44	43									2	150 (6")
51	44	43						* C1,D1-6 (SD40) + D1			3	180 (7")
51	44										1	140 (5,5")
52	44							* D1-6 (SD40)			1	150 (6")
52	44							* D1-6 (SD40)			2	180 (7")

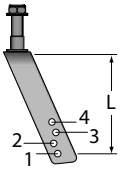
* = Not applicable
SD =seat depth

XLT SWING





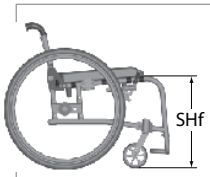


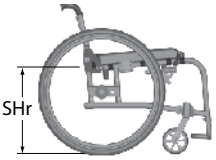


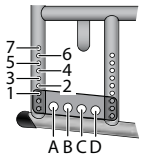
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
24"/25" Low profile											
40						40		2			75 (3")
41					41	40		1			75 (3")
41					41	40		2			100 (4")
42					41-42	40		1			100 (4")
43				43	41-42	40			2		75 (3")
43				43	41-42	40			4		125 (5")
43				43	41-42	40			3		100 (4")
43				43	41-42	40		1			125 (5")
44			44	43	41-42	40	* D4-6 (SD40)		4		140 (5,5")
44			44	43	41-42	40			1		75 (3")
44			44	43	41-42	40			3		125 (5")
44			44	43	41-42	40			2		100 (4")
45		45	44	43	41-42	40	* D3-6 (SD40)		3		140 (5,5")
45		45	44	43	41-42	40			1		100 (4")
45		45	44	43	41-42	40			2		125 (5")
45		45	44	43	41-42	40	* D1-6 (SD40)		3		150 (6")
46	46	45	44	43	41-42	40	* D2-5 (SD40)		2		140 (5,5")
47	46	45	44	43	41-42	40	* D1 (SD40)		1		125 (5")
47	46	45	44	43	41-42	40	* D2-6 (SD40)		2		150 (6")
47	46	45	44	43	41-42	40				2	75 (3")
47	46	45	44	43	41-42	40				3	100 (4")
47	46	45	44	43	41-42	40				4	125 (5")
47	46	45	44	43	41-42	40	* D1-5 (SD40)		1		140 (5,5")
48	46	45	44	43	41-42	40	* D1-4 (SD40)			4	140 (5,5")
48	46	45	44	43	41-42	40			1		150 (6")
48	46	45	44	43	41-42	40			2		180 (7")
48	46	45	44	43	41-42	40				1	75 (3")
48	46	45	44	43	41-42	40				2	100 (4")
48	46	45	44	43	41-42	40				3	125 (5")
48	46	45	44	43	41-42	40	* D1-6 (SD40)			4	150 (6")
49	46	45	44	43	41-42		* D1-4 (SD40)			3	140 (5,5")
49	46	45	44	43	41-42				1		180 (7")
49	46	45	44	43	41-42					1	100 (4")
50	46	45	44	43	41-42					2	125 (5")
50	46	45	44	43	41-42		* D1-6 (SD40)			3	150 (6")
50	46	45	44	43			* C1-7,D1-6 (SD40) + D1-6 (SD45)			4	180 (7")
50	46	45	44	43			* D1-3 (SD40)			2	140 (5,5")
51	46	45	44	43						1	125 (5")
51	46	45	44	43			* D1-6 (SD40)			2	150 (6")
51	46	45	44	43			* C1-6,D1-6 (SD40) + D1-6 (SD45)			3	180 (7")
51	46	45	44				* D1-3 (SD40)			1	140 (5,5")
52	46	45	44				* D1-6 (SD40)			1	150 (6")
52	46	45	44				* C1-6,D1-6 (SD40) + D1-6 (SD45)			2	180 (7")

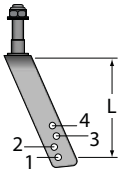
* = Not applicable
SD =seat depth

XLT SWING





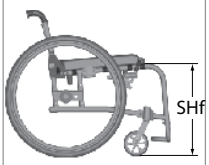


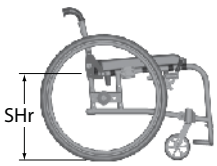


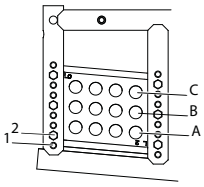
SHf	SHr							L=75	L=110	L=150	mm
	1	2	3	4	5	6	*				
26" Low profile											
41						41		1			75 (3")
41						41		2			100 (4")
42					42	41		1			100 (4")
43					42-43	41			2		75 (3")
43					42-43	41			4		125 (5")
43					42-43	41			3		100 (4")
43					42-43	41	* D6 (SD40)	1			125 (5")
44				44	42-43	41	* D1-6 (SD40)		4		140 (5,5")
44					42-43	41			1		75 (3")
44				44	42-43	41	* D5-6 (SD40)		3		125 (5")
44				44	42-43	41			2		100 (4")
45			45	44	42-43	41	* D1-6 (SD40)		3		140 (5,5")
45			45	44	42-43	41	* D4 (SD40)		1		100 (4")
45			45	44	42-43	41	* D4 (SD40)		2		125 (5")
45			45	44	42-43	41	* C4-5,D1-6 (SD40) + D4-5 (SD45)		3		150 (6")
46		46	45	44	42-43	41	* D1-6 (SD40)		2		140 (5,5")
47	47	46	45	44	42-43	41	* D2-4 (SD40)		1		125 (5")
47	47	46	45	44	42-43	41	* C2-3,D1-6 (SD40) + D2-3 (SD45)		2		150 (6")
47	47	46	45	44	42-43	41				2	75 (3")
47	47	46	45	44	42-43	41	* D2-3 (SD40)			3	100 (4")
47	47	46	45	44	42-43	41	* D2-3 (SD40)			4	125 (5")
47	47	46	45	44	42-43	41	* D1-6 (SD40)		1		140 (5,5")
48	47	46	45	44	42-43	41	* D1-6 (SD40)			4	140 (5,5")
48	47	46	45	44	42-43	41	* C2-3,D1-6 (SD40) + D2-3 (SD45)		1		150 (6")
48	47	46	45	44	42-43	41	* B2,C1-6,D1-6 (SD40) + D1-6 (SD45)		2		180 (7")
48	47	46	45	44	42-43	41				1	75 (3")
48	47	46	45	44	42-43	41	* D2-3 (SD40)			2	100 (4")
48	47	46	45	44	42-43	41	* D2-3 (SD40)			3	125 (5")
48	47	46	45	44	42-43	41	* D1-6 (SD40) + D2 (SD45)			4	150 (6")
49	47	46	45	44	42-43	41	* D1-6 (SD40)			3	140 (5,5")
49	47	46	45	44	42-43	41	* B1-4,C1-3,D1-6 (SD40) + C1-2,D1-6 (SD45)		1		180 (7")
49	47	46	45	44	42-43	41	* D1-2 (SD40)			1	100 (4")
50	47	46	45	44	42-43	41	* D1-2 (SD40)			2	125 (5")
50	47	46	45	44	42-43	41	* C1-3,D1-6 (SD40) + D1-3 (SD45)			3	150 (6")
50	47	46	45	44	42-43	41	* B1,C1-7,D1-7 (SD40) + D1-6 (SD45)			4	180 (7")
50	47	46	45	44	42-43		* D1-6 (SD40)			2	140 (5,5")
51	47	46	45	44	42-43		* D1-2 (SD40)			1	125 (5")
51	47	46	45	44	42-43		* C1,D1-6 (SD40) + D1 (SD45)			2	150 (6")
51	47	46	45	44	42-43		* B1-2,C1-6,D1-6 (SD40) + C1-2,D1-6 (SD45)			3	180 (7")
51	47	46	45	44			* D1-6 (SD40)			1	140 (5,5")
52	47	46	45	44			* C1,D1-6 (SD40) + D1 (SD45)			1	150 (6")
52	47	46	45	44			* C1-6,D1-6 (SD40) + D1-6 (SD45)			2	180 (7")

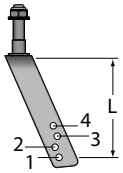
* = Not applicable
SD =seat depth

XLT MAX





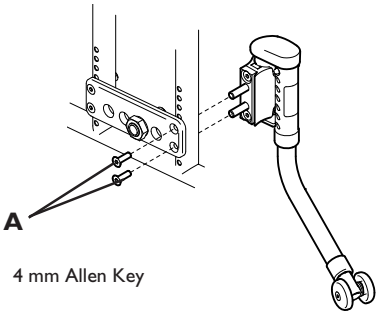




SHf	SHr							L=110	L=150	mm
	A1	A2	B1	B2	C1	C2	*			
24"										
44	*	*	44	43-42	41	40		4	*	140 (5,5")
45	*	45	44	43-42	41	40		3	*	140 (5,5")
46	*	45	44	43-42	41	40		3	*	150 (6")
47	46	45	44-43	42	41	40		2	*	140 (5,5")
47	46	45	44-43	42	41	40		2	*	150 (6")
48	46	45	44-43	42	41	40		1	*	140 (5,5")
48	46	45	44-43	42	41	40-39		1	*	150 (6")
48	46	45	44-43	42	41	40-39		2	*	180 (7")
49	46	45	44-43	42	41	40-39		*	4	150 (6")
49	46	45	44-43	42	41-40	39		*	3	140 (5,5")
49	46	45	44-43	42	41-40	39		1	*	180 (7")
50	46	45-44	43	42	41-40	39		*	3	150 (6")
50	46	45-44	43	42	41-40	39		*	4	180 (7")
50	46	45-44	43	42	41-40	39		*	2	140 (5,5")
51	46	45-44	43	42	41-40	39		*	2	150 (6")
51	46	45-44	43	42	41-40	39		*	3	180 (7")
51	46	45-44	43	42	41-40	*		*	1	140 (5,5")
52	46	45-44	43	42	41-40	*		*	1	150 (6")
52	46	45-44	43	42-41	41	*		*	2	180 (7")

Accessories
ANTI-TIP DEVICES

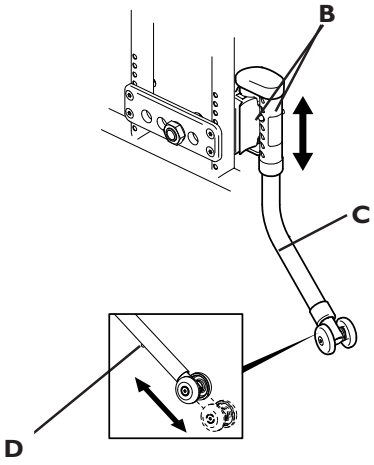
1.



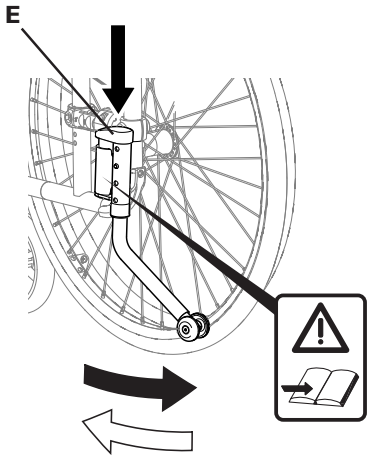
Tools: 4 mm Allen Key

2.

3.



4.



For safety reasons we recommend the use of two anti-tip devices

The anti-tip device is foldable and adjustable in both height and depth. Please pay special attention to the placement of the anti-tip device when in use. A sticker will warn you if the anti-tip device is not activated.

When the extended rear wheel attachment is used an extended anti-tip device is recommended, see next page.

1. Mounting

Remove the back screws (A) and nuts on the rear wheel attachment.
Insert the Anti-tip device in the holes in the rear part of the chassis. Fit the anti-tip device on the screws and tighten.

2. Adjusting height

To adjust the height press the two knobs (B) on each side of the housing and pull the tube (C) to desired set of holes.
The knobs will lock the tube into position.

Do not use knobs (B) to fold or unfold the anti-tip device.

3. Adjusting depth

To adjust the depth press knob (D) and pull the wheel tube out to desired depth. The knob will lock the tube into position.

The distance between the anti-tip wheel and the ground, and the distance between the anti-tip wheel and rear wheel, should be approx. 5 cm.

4. Folding

To swing the anti-tip device under the wheelchair, press the cap (E) downwards and then sideways.

NOTE! A red warning sticker can now be seen.

To activate the anti-tip device, just swing it back in place and it will lock into position automatically.

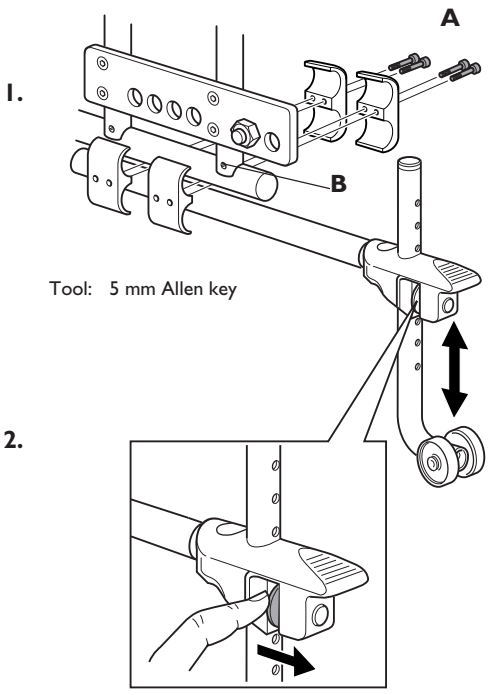
NOTE! When the anti-tip device is correctly activated the warning sticker will be hidden.

Use your foot when folding the anti-tip device. If you do it by hand, there is an increased risk that you will trap your fingers between the anti-tip housing and the tube.

Never forget to fold down the anti-tip devices or the wheelchair may tip over.

Make sure the anti-tip device is securely locked before use.

Use extended anti-tip devices when an extended rear weel attachment is used.



Anti-tip device, extended

The anti-tip device also acts as a step tube. It is height adjustable and easy to adjust.

This extended anti-tip device is primarily used when an extended rear wheel attachment is used. It can also be used with the standard rear wheel attachment.

1. Attach the anti-tip device to the frame tube with brackets and screws (A).

2. Lift the spring loaded button and select the required height. Ensure that the anti-tip device locks into its new position.

The rearwheel attachment cannot be mounted in the lowest position (B) when the extended anti-tip device is used.

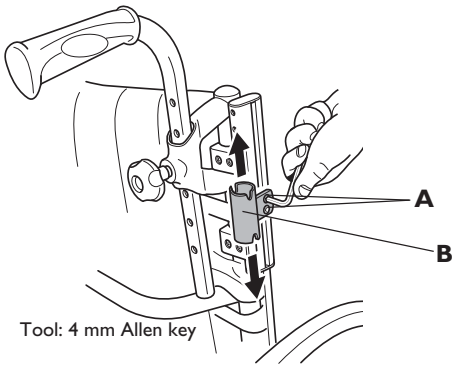
Never forget to fold down the anti-tip devices or the wheelchair may tip over.

The distance between the anti-tip wheel and the ground, and the distance between the anti-tip wheel and rear wheel, should be approx. 5 cm.

For safety reasons we recommend the use of two anti-tip devices

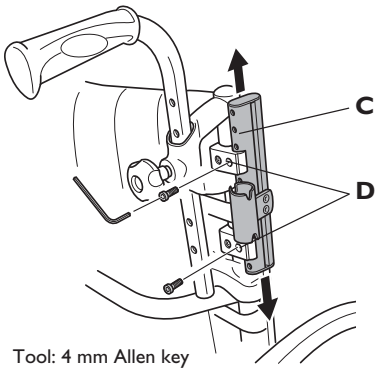
TRUNK SUPPORT

1a.



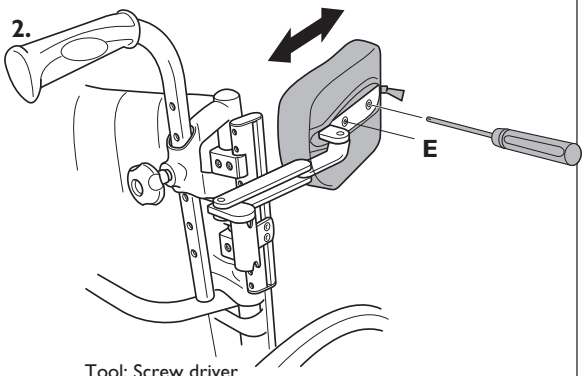
Tool: 4 mm Allen key

b.



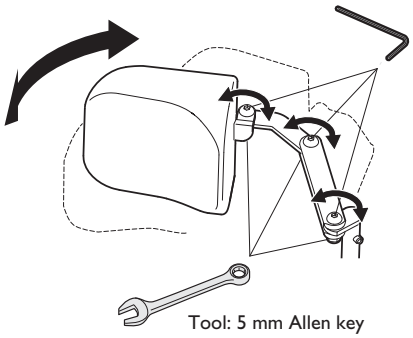
Tool: 4 mm Allen key

2.



Tool: Screw driver

3.



Tool: 5 mm Allen key
13 mm fixed spanner

The trunk support can be swung away or lifted out of its holder. The height, depth and sideways positions are easy to adjust.

Height adjustment

1a. Adjust the height by first slackening the screws (A) with an Allen key and then sliding the holder (B) up or down to the required position. Re-tighten screws.

b. The bracket (C) can also be adjusted up or down by first removing the screws (D) on the attachments with an Allen key. Move the bracket up or down to the required position. Re-tighten screws.

2. Depth adjustment

Open the zip on the cover to reach screws (E) and slacken with a screw driver. Adjust the trunk support to the desired position. Re-tighten screws and close the zip.

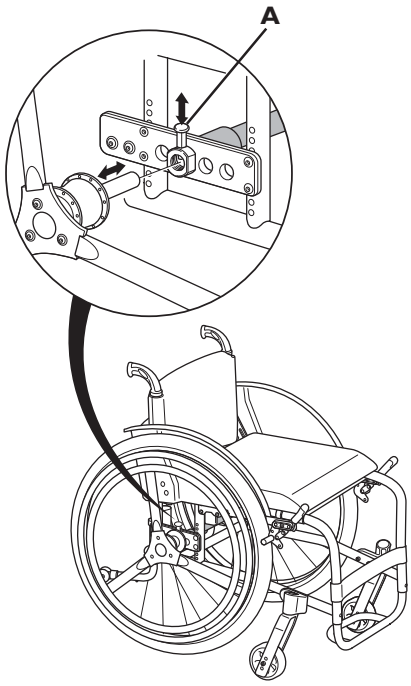
3. Angle adjustment

Remove the cover on the arm of the trunk support to reach the screws and nuts and slacken them. Remember to secure tightly when the desired position has been achieved.

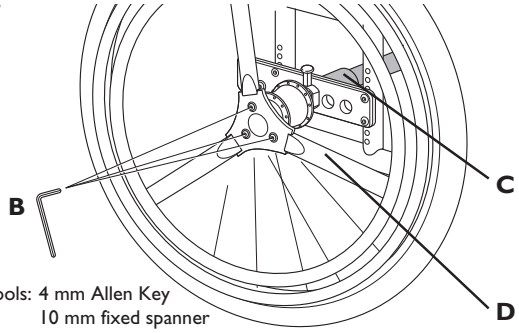
⚠ Be careful not to catch your thumb between the trunk support and the wheel when propelling the chair.

ONE-ARM DRIVE

1.



2.



Tools: 4 mm Allen Key
10 mm fixed spanner

The quick release one-arm drive allows the user to propel the wheelchair with one hand. Two hand rims are mounted on the same rear wheel. The one-arm drive wheel can be mounted on either the left or the right side.

1a. Detaching the wheel
Pull the knob (A) and remove the wheel from the hub.

1b. Attaching the wheel
Pull the knob (A) and push the wheel back onto the hub.

⚠ It is very important that you check that the locking pin has actually locked the wheel into position when the knob has been released. Take hold of the wheels and try to detach them. This should NOT be possible.

The hand rims can be positioned either level with each other (internal position) or with the inner, smaller hand rim protruding slightly (external position).

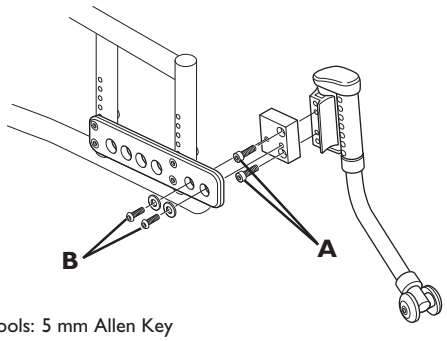
2. Changing the position of the hand rims
Unscrew the three screws (B), remove the hand rim and turn it over. Put it back into position and firmly retighten the three screws.

⚠ Take care when removing the telescopic transmission shaft. Point it away from the body when releasing the powerful spring.

Please note! The transmission shaft (C) is an integral part of the wheelchair and the user will be unable to propel the wheelchair without it.

⚠ Take care not to trap your fingers between the spokes and the three bars of the outer handrim (D).

ANTI-TIP DEVICE FOR ONE-ARM DRIVE



Tools: 5 mm Allen Key
4 mm Allen Key

For information about usage and safety, read the page about anti-tip devices in this manual.

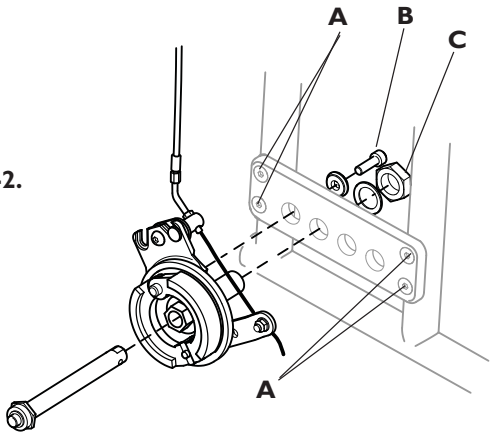
Mounting

1. Attach the adapter plate to the anti-tip device with the screws (A) using a 5 mm Allen key.

2. Attach the anti-tip device with adapter plate to the rear wheel attachment with the screws and washers (B) using a 4 mm Allen Key.

ASSISTANT MANOEUVRED DRUMBRAKES

1-2.



Tools: 4 mm Allen Key
10 mm fixed spanner

Active rear wheel fixation with drumbrake
By changing the position of the rearwheel on the rearwheel attachment you can alter both the seat height and the manoeuvrability/stability of the wheelchair. The further forward the rearwheel is positioned, the more manoeuvrable your chair becomes, but with reduced stability.

1. To alter the height position of the rearwheel plate, use an Allen key to hold the screws (A) in place and loosen nuts (B) with a fixed spanner. Choose the new position and fasten the screws.

⚠ Always remember to adjust the brakes, when the rearwheel position is changed.

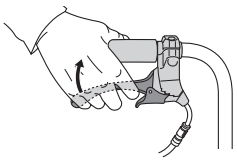
2. To move the rearwheel (either backwards or forwards) on the rearwheel attachment, first remove the screw (B), and nut (C), adjust to the required position and then fasten the screw and nut.

⚠ The tip risk increases if the rearwheels are located in front of the backrest. Use anti-tip devices.

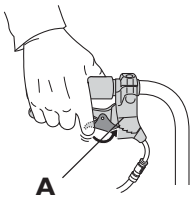
⚠ Always remember to adjust the brakes, when the rearwheel position is changed.

⚠ When you have fitted the wheels in the correct position, it is important that you check thoroughly that the nuts and screws are tightened securely. This is important for your own safety!

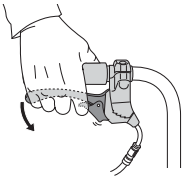
1.



2.



3.



1. **Applying the brakes when moving**
Pull both brake handles upwards (squeeze the handles) and the brake will be applied.

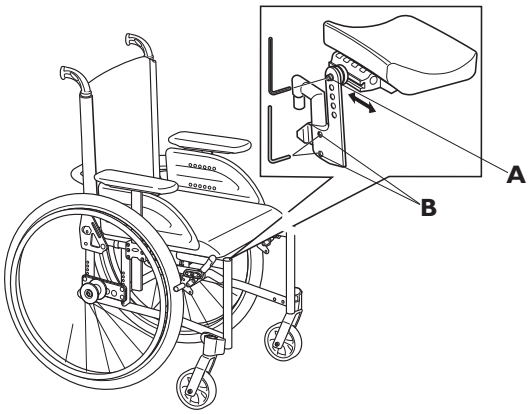
2. **Locking the brakes**
Pull the brake handle upwards and move the lock catch (A) upwards. Then release the handle.

3. **Releasing the brake**
Pull the handle upwards and the lock catch will release automatically.

⚠ Incorrect adjustments or use of the brakes can reduce their performance.

AMPUTEE LEGREST

1-2.



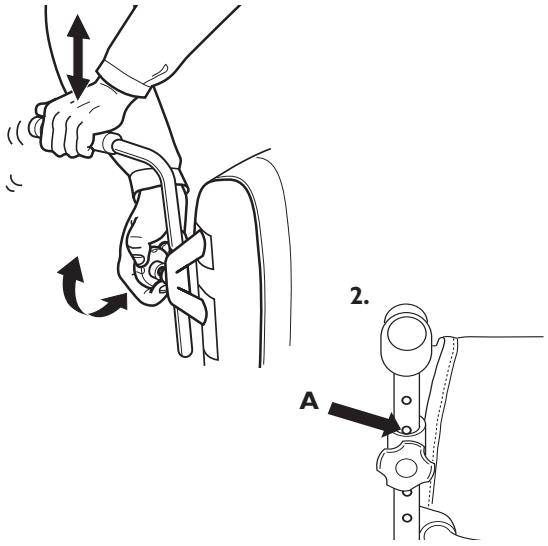
Tools: 5 mm Allen key

1. Attach the legrests by pushing the tube at the upper part of the legrests down into the tubes on the wheelchair. You must angle the legrests outwards when inserting them. Lock the legrests by turning them inwards. The legrests are automatically locked so there is no risk of them coming off the wheelchair.

2. Slacken screw (A), on the cushion's mounting, in order to adjust the cushion's angle and depth. Slacken screws (B) in order to adjust the cushion height.

EXTERNAL PUSH HANDLES

1.



Adjusting the height of the push handles

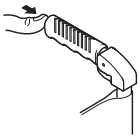
1. To raise or lower the height of the push handles turn the knob and raise the handles to the required height. Tighten when the correct position is achieved.

2. When hole (A) is visible, just above the attachment, the handle will be in the right "locking-position".

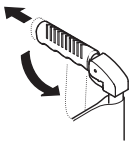
Make sure the push handles care securely locked before use.

FOLDABLE PUSH HANDLES

1.



2.



3.

Folding down push handle

1. Press and hold the trigger, which is hidden under the plastic handle, with your thumb.

2. Pull back the push handle and fold it down.

.

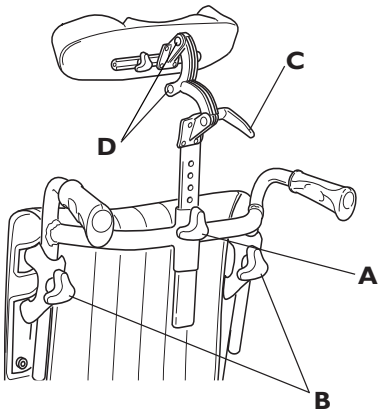
Folding up push handle

3. Pull the push handle upwards until it has snapped into place.

Make sure that the push handles have snapped into position, so that they cannot accidentally fold down again when the wheelchair is being pushed.

HEAD AND NECKREST

1

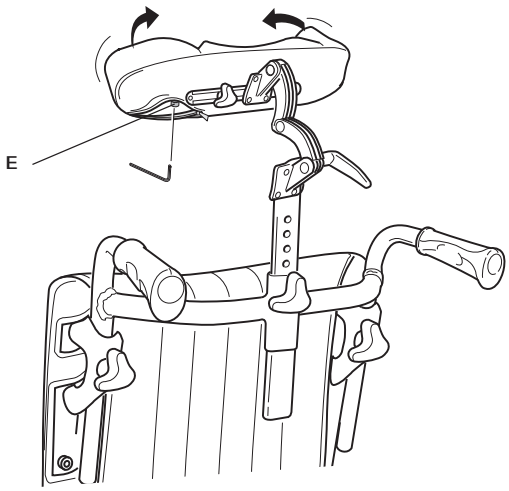


1. Head and neckrest for biangular backrest
The head and neckrest are mounted on the push bar.

Height adjustment
Loosen the knobs (A and/or B) and adjust to desired height. Retighten the knobs again.

Angle adjustment
Loosen the handle (C) and/or the screws (D)and set the desired angle. Retighten the handle and the screws.

2



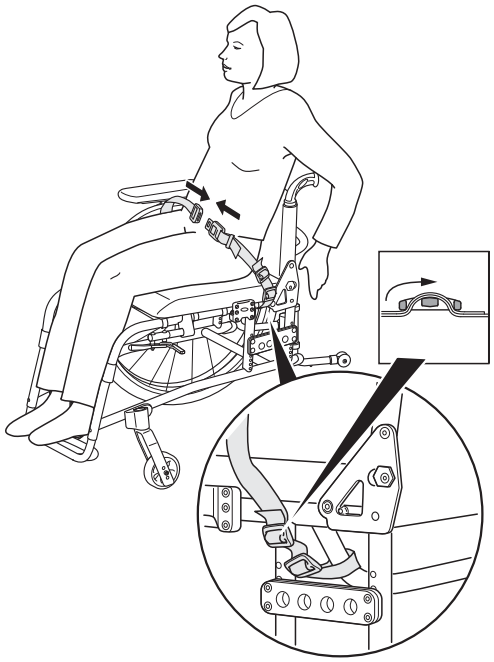
2. Adjust the angle of the sides of the headrest
Adjust the angle of the "wings" of the headrest by unzipping the zip at the bottom of the neckrest and loosening the screw (E). Set the required angle and close the zip.

A head and neckrest may affect the balance of the wheelchair when mounted behind the backrest. Please control the balance of the wheelchair and adjust the rearwheels backwards for increased stability.

Tool: 5 mm Allen key

PELVIC BELT

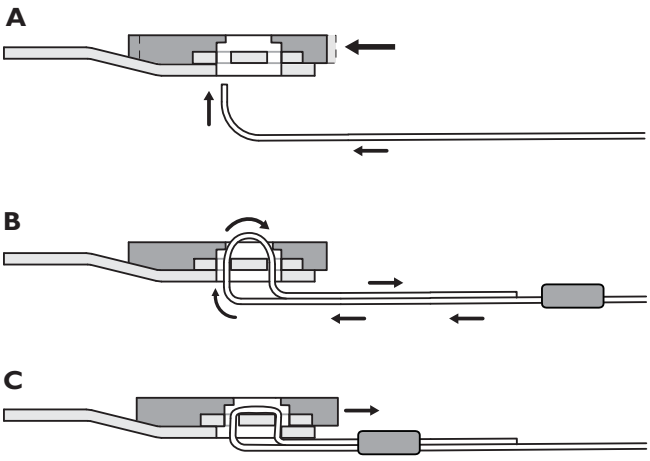
1-2



1. The pelvic belt is used to avoid the risk of sliding out of the wheelchair and to maintain a good posture.

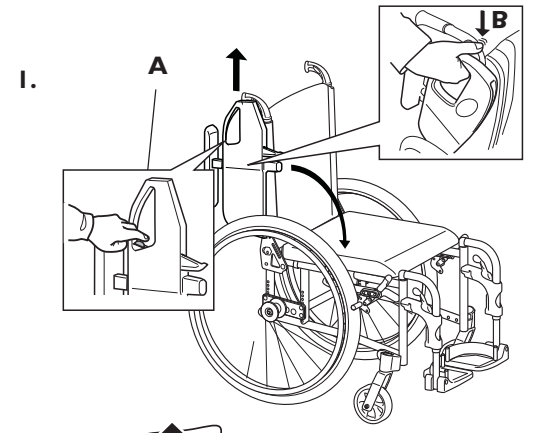
2. The pelvic belt is strapped around the tubing under the seat (A). The belt is strapped around the tube and through the two plastic buckles according to the picture

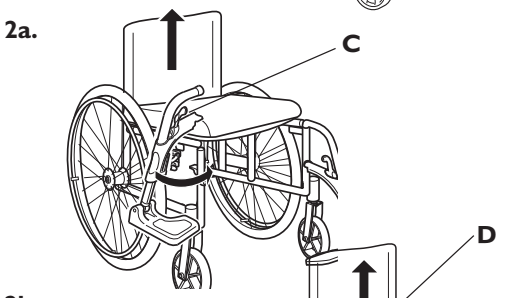
3

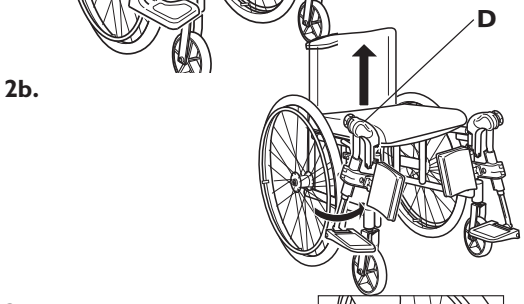


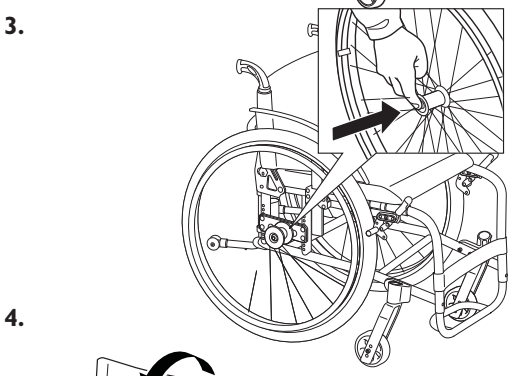
3. If the belt has come loose at the metallic buckle it should be threaded according to the pictures a-c. Please make sure that the belt cannot slide.

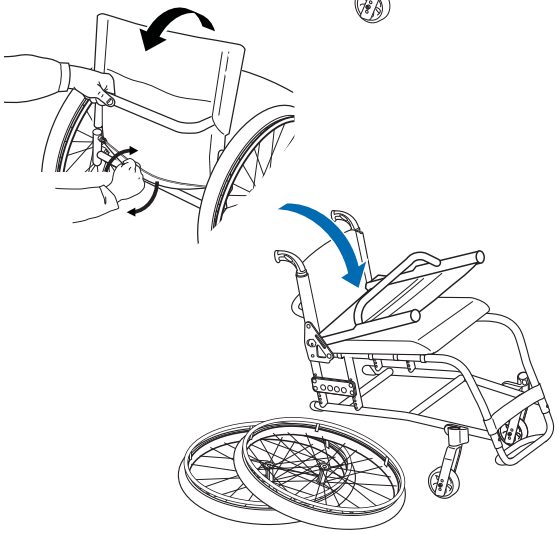
HOW TO DISASSEMBLE YOUR XLT TO TRANSPORT IT AS LUGGAGE











Your XLT is easy to transport, many parts are removable to make the chair smaller and lighter.

1. Start by removing the armrests.

Flip up armrests
Press the button (A), swing the armrest up.
Lift it straight up. You may need to hold it slightly forward, then lift it straight up (B).

Detachable armrests
When you have detachable armrests, just lift them up.

2a. Remove the swing away legrests by pressing the lever (C), whilst turning the footrests outwards or inwards and pull them straight up.

2b. Remove the adjustable legrests by pressing the level (D) backwards, whilst turning the legrests outwards and pull them straight up.

⚠ Be careful that you do not trap your fingers between frame and legrest.

3. Remove the rear wheels by pressing the button in the centre of the hub at the same time as you pull the wheel away from the wheelchair. The procedure is the same when you replace the wheel: press the button and put the wheel back in place.

⚠ It is very important that you check that the locking pin has actually locked the wheel into position when the centre button has been released. Take hold of the wheels and try to detach them. This should NOT be possible.

4. Folding the chair
After removing the wheels, flip down the backrest by grabbing the wire at the lower back of the backrest and twisting it to release the backrest locking.

⚠ Be careful that you do not trap your fingers when you fold the backrest forward onto the seat.

! Important
Do not try to lift the wheelchair by grabbing the backrest bar. The XLT Max does not have a locking function and the backrest may flip up and hurt you.

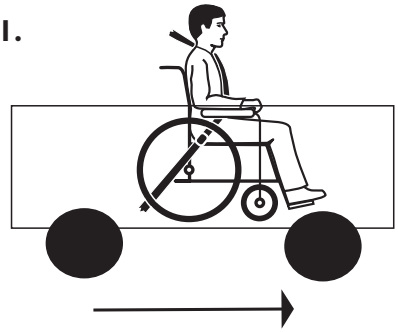
TRANSPORTING WHEELCHAIRS WITH USERS IN VEHICLES

The Invacare Rea™ wheelchairs are designed to offer the user the best comfort and safety possible during all kinds of situations in everyday life. This means that compromises have to be made in order to make the product useful. During transport in cars, it is always safest to ride in the car's normal seat with the seatbelt on. You *should* ride in the car's normal seat and use the seatbelt if possible. If, for some reason, it is impossible to be transported in any other way the wheelchair can be used as a seat in a vehicle if the following rules and regulations are followed.

We would like to point out that there is always a risk involved in being transported seated in your wheelchair. The risk for injury during an incident increases when you have a wheelchair with a low backrest. The lower the back, the higher the risk for injury. Therefore, Invacare strongly advise against the use of XLT as a seat in a vehicle if the backrest is lower than 40 cm.

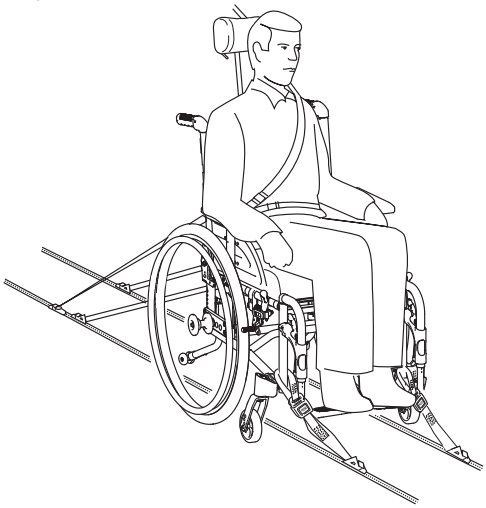
Even if the Invacare Rea™ products and the following rules are meant to increase safety during transport in vehicles, injuries to passengers can still occur if an accident should happen. Invacare does not leave any guaranties for the outcome of any accidents during transport of wheelchairs and users in vehicles.

1.



1. The wheelchair and user should be transported forward-facing in the direction of travel. All auxiliary equipment such as tables, trunk support, abduction cushion etc should be removed and stored safely so that they do not injure anyone during any kind of accident.

2.

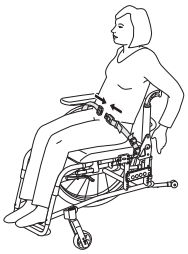


2. The wheelchair should be secured in the vehicle with a 4-point restraint system. The user should wear a 3-point safety belt secured in the vehicle. Both the 4-point restraint system and the 3-point safety belt should be approved according to ISO 10542-2.

3.

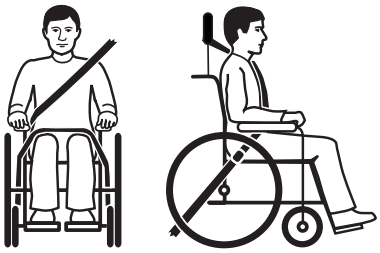
3. The tie-down points on the wheelchair where the restraint system straps should be placed are marked with this symbol.

4.



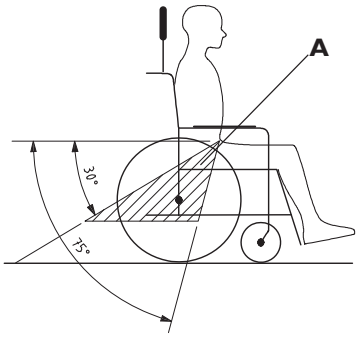
4. In order to be used as a seat during transport in a vehicle, the wheelchair must be equipped with a pelvic belt and with anti-tippers.

5.



5. The vehicle's safety belt should fit as tightly across the user's body as possible without discomfort. The upper part of the safety belt should fit over the user's shoulder as illustrated. No part of the safety belt must be twisted.

6.



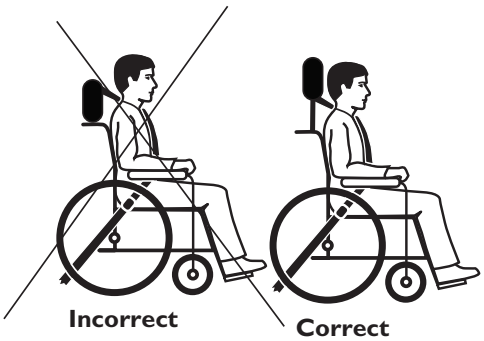
6. The pelvic part of the 3-point safety belt must be worn low across the pelvis so that the angle of the pelvic belt is within the preferred zone (A) of 30° to 75° to the horizontal. A steeper angle is preferred, but never exceeding 75°.

7.

Incorrect placement of safety belt

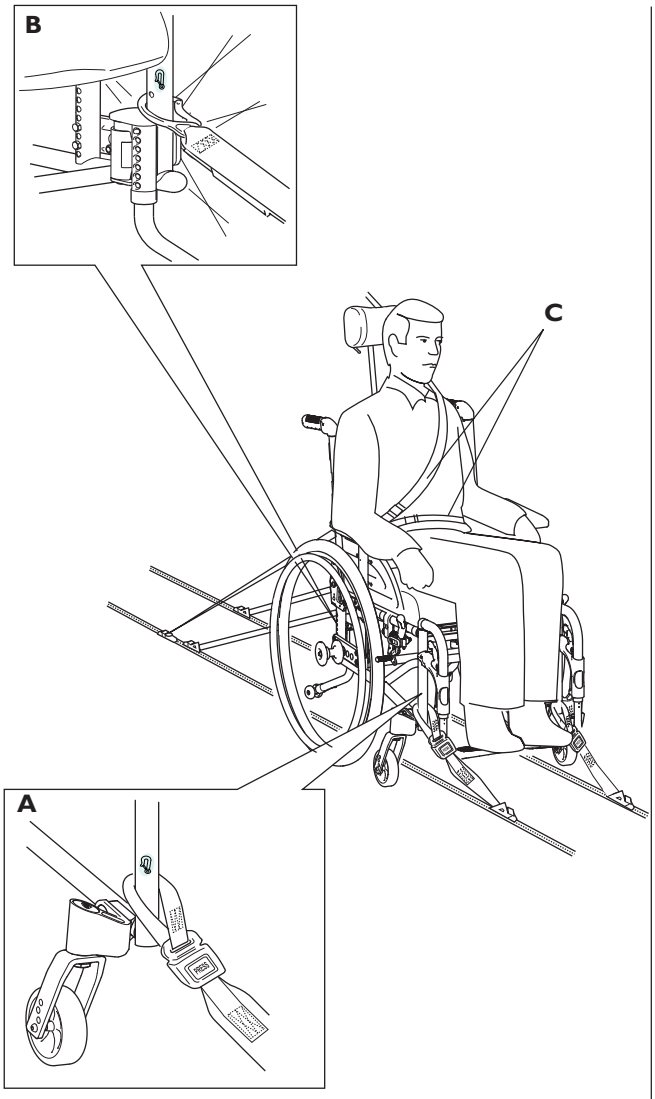
7. The 3-point safety belt must not be held away from the user's body by parts of the wheelchair such as armrests or wheels etc.

8.



8. A headrest must always be used during transport and it must be adjusted as shown in the picture.

RESTRAINT METHODS



A. Front restraints with straps

1. Connect the front straps around the front tube of the frame, just above the castor housing, see picture A.
2. Release brakes and tension front straps by pulling the wheelchair backwards.
3. Re-apply wheelchair brakes.

B. Rear restraints

1. Attach the snap hooks of the rear straps around the rear tube of the frame, just above the rear wheel attachment, see picture B.
2. Tighten the straps.

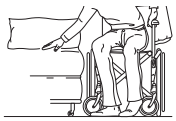
C. Pelvic belt and 3-point safety belt

1. Check that the pelvic belt is correctly attached to the wheelchair, adjust the length and fasten it around the user.
2. Fasten the 3-point safety belt around the user.

Safety instructions/ propelling techniques

We recommend that the qualified person who has prescribed your wheelchair for you, tests the wheelchair and that he/she makes the adjustments that you want, taking your build and needs into account. We also hope that you have received help in learning how best to use your chair. Start by practising carefully until you are familiar with the wheelchair's possibilities and limitations.

Moving to/and from the wheelchair

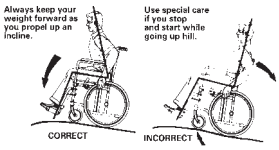


Propel the wheelchair as near as possible to the seat that you want to move to. Apply the brake. Remove/flip up the armrests and detach the legrests/move them outwards. Do not put any of your weight on the foot plates, as the chair may tip forwards.

Stretching and bending

Propel the wheelchair as near as possible. When stretching and bending, do always have full contact between the backrest and the back otherwise the wheelchair may tip over. Stretching behind the back is not recommended.

Propelling up a slope

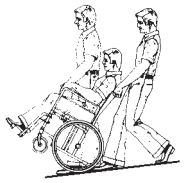

Always keep your weight forward as you propel up an incline.
CORRECT
Use special care if you stop and start while going up hill.
INCORRECT

Many experienced users manage to propel up a slope by themselves. In order not to lose control of the steering and to avoid tipping backwards, you should always lean forwards whilst propelling up a slope. Propel the wheelchair forwards using short, quick strokes applied to the hand rims, in order to maintain speed and steering control.
Generally, help is needed in the case of steep slopes.
If you have to stop on a slope, it is particularly important to ensure that you do not make any sudden or unexpected backward movements when you start moving the wheelchair forwards again. As the wheelchair is already leaning backwards, such a movement can cause the wheelchair to tip backwards.

Be careful not to trap your fingers between brake pin and tyre.

A wheelchair displaying a sticker with this symbol has a particularly high tip risk. Take special care when climbing a ramp or slope with an incline of more than 9°. Always use anti-tip devices!

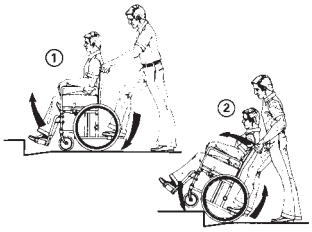
Propelling down a slope



We recommend that you get the help of one or more assistants when going down steep and wet slopes.

First check the slope to see if there are any particular risks, such as potholes, slippery sections, etc. Never use your brake to slow down. When you apply the brake on a downward slope, the wheels lock and the wheelchair can suddenly pull to one side, tip sideways or stop immediately, which can cause you to be thrown out of the chair. Always control the speed with the hand rims. Remember that the hand rims may become hot due to friction, and this may cause injury to your hands. Try to propel down the slope in a straight line as much as pos sible. Never change direction when propelling down a slope. Never propel up or down a slope crosswise.

Onto a kerb



This method is for when the assistant is always behind the wheelchair and creates the greatest safety for the user.
The following advice is for the assistant:

Illustration 1
Adjust the anti-tip device upwards. Ensure that the user's feet rest securely on the footrests and cannot slide off. Then lean the wheelchair backwards and push it forwards against the kerb.

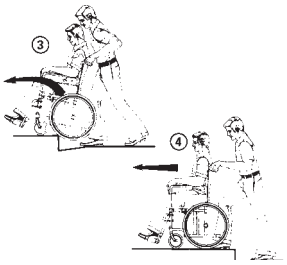


Illustration 2
Lower the frontal part of the wheelchair onto the pavement and place yourself as close to the chair as possible, before you lift up the whole wheelchair.

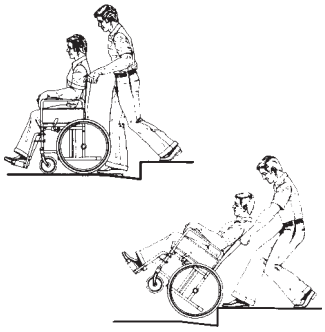
Illustration 3
Lean forward and lift/roll the wheelchair over the pavement edge.

Illustration 4
Lower the wheelchair onto the pavement so that the weight is divided on all four wheels. Ensure that the wheelchair does not roll backwards.

Off a kerb

Follow the procedure above, but in reverse order (step 4, 3, 2 and then 1) to move off a kerb.

Kerbs – alternative method



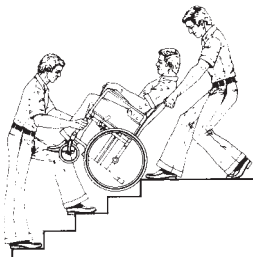
Generally this method is used by experienced assistants who are stronger than average. The method can also be used when the kerb or step is low and only constitutes a minimal obstacle.

The assistant goes backwards onto the pavement and then pulls the wheelchair up onto the pavement. It is important for the assistant to use his/her body correctly to prevent injury. Tip the wheelchair backwards and roll the chair over the kerb onto the pavement. Take particular care if the kerb is wet or slippery.

Escalators

Do not use the escalator when you are in the wheelchair. Find out whether there is a lift nearby.

Stairs



We advise you to avoid going up/down stairs in your wheelchair where possible, and to choose an alternative route instead.

We recommend that you receive help from two assistants to get up and down stairs. One assistant goes in front of the chair and hold the frame of the wheelchair, whilst the other assistant goes behind the chair and holds the push handles. Fold the anti-tip device upwards. Balance the wheelchair on the drive wheels until the balance point is found. The wheelchair is then rolled down the stairs, step by step, by letting the drive wheels roll over the edge of each step. Assistants must remember not to hold removable armrests or legrests. In addition, assistants should remember to lift correctly, using their legs and keeping their backs as straight as possible.

GUARANTEE

We provide a two-year guarantee from the delivery date. Damage due to wear and tear on upholstery, tyres, (rubber) tubes, hand rims and castors etc., is not covered by the guarantee. Damage that has been caused through physical violence or abnormal use is not covered. Damage caused by users who weigh more than 135 kg is not covered. The guarantee will only apply if the maintenance instructions are followed.

MAINTENANCE INSTRUCTIONS

Your Invacare® wheelchair is easy to keep clean and in good condition. Just follow the instructions below.

Cleaning

- Wipe metal sections and the upholstery regularly with a damp cloth. A mild detergent may be used. If necessary, the upholstery can be washed at 40°C. Ordinary washing powder/liquid can be used.
- For disinfection use a damp cloth and an alcohol based (max. 70%) detergent.

Washing and Disinfection

1. Remove all loose and removable covers and wash these in a washing machine following the washing instructions for each article.
2. Spray the wheelchair with detergent, for example a car-cleaning agent with wax, and leave on to work.
3. Rinse the wheelchair with a high-pressure cleaning or ordinary jet of water depending on how dirty the chair is. Do not aim the jet towards bearings and draining holes. If the wheelchair is washed in a machine the water must not be hotter than 60 degrees.
4. Spray the chair with alcohol for disinfection.
5. Leave the chair to dry in a drying cabinet. Remove parts where water has collected for example in end tubes, ferrules etc. If the chair has been washed in a machine, blow-drying with compressed air is recommended.

Wheels and tyres

- Wheel axles are to be wiped clean and lubricated with a drop of oil.
- Pneumatic tyres have valves similar to those on a car tyre, and the tyres can be pumped up using the same type of pump used for cars.
- The recommended pressure is written on the side of the tyre
- If you need advice or service e.g. in case of a puncture contact your supplier.

When inflating tyres there is a risk of explosion if over inflated.

Technical servicing

- Only original parts or those approved and fulfilling the Invacare® specifications may be used.
- All technical servicing is to be carried out by an authorised wheelchair technician or by the Invacare® service department. The wheelchair should be checked by authorised wheelchair technicians or the service department at Invacare® once a year. The address and telephone number are on the back cover of the manual.
- Check all parts of the wheelchair once a week. If you discover damage, please contact Invacare® immediately. The address and telephone number are on the back cover of this manual.

Service life

We estimate that the Invacare® wheelchair has a service life span of five years. It is difficult to state the exact length of the service life of our products, and the length stated is an estimated average life span based on normal use.
The life span may be considerably longer if the wheelchair is used to a limited extent, and if it is used with care, maintained and handled properly. The life span may be shorter if the wheelchair is subjected to extreme use.

Accidents/Near-accidents

Please inform your Invacare® sales company (phone number is on the back cover) of any accidents/near-accidents that were caused by this wheelchair and that have led to/could have led to personal injury.
The relevant authority in your country must also be notified.

Testing

Your Invacare® wheelchair has been tested and approved by Hi in Sweden, TÜV Süd in Germany and CERAH in France and is CE -marked according to the Medical Directive.

Recycling

The wheelchair can be divided into the following main components:

- Chassis
- Plastic parts
- Upholstery
- Wheels, tyres and tubes
- Packing

Chassis

The chassis is produced in titanium and is fully recyclable.

Plastic parts

The plastic parts in the chairs are produced of plastic of the family "Thermoplastic" and are marked with recycling symbols (where it is possible due to part size). The main plastic material is polyamide. This material can be recycled or burned in approved facilities.

Upholstery

Upholstery is produced of polyester, nylon or PVC. The efficient way to recycle the parts is to burn them in approved facilities.

Wheels, tyres and tubes

The hand rim, spokes and hub are made of steel, stainless steel, aluminium or titanium and can be recycled according to above.
Tyres and tubes are made of rubber and can be recycled according to above.

Packing

All Invacare® Rea® AB packing material is developed to fit the products in an optimal way to reduce unnecessary waste in material. All boxes are recyclable.
Contact your local recycling agent to get correct information how to handle the above mentioned materials.

Surface treatment

Lacquered surfaces are lacquered with polyester. Some steel parts are zinc-plated. Not lacquered aluminium parts are anodised. Visible wooden parts are lacquered.

Manufacturer:

Invacare Rea AB
Växjövägen 303 S-343 75 DIÖ, SWEDEN

Sales companies:

Belgium & Luxemburg:
Invacare nv, Autobaan 22, B-8210 Loppem
Tel: (32) (0)50 83 10 10, Fax: (32) (0)50 83 10 11
belgium@invacare.com

Danmark:
Invacare A/S, Sdr. Ringvej 37, DK-2605 Brøndby
Tel: (45) (0)36 90 00 00, Fax: (45) (0)36 90 00 01
denmark@invacare.com

Deutschland:
Invacare Aquatec GmbH, Alemannenstraße 10, D-88316 Isny
Tel: (49) (0)75 62 7 00 0, Fax: (49) (0)75 62 7 00 66
info@invacare-aquatec.com

Ulrich Alber GmbH, Vor dem Weissen Stein 21, D-72461 Albstadt-Tailfingen
Tel: (49) (0)7432 2006 0, Fax: (49) (0)7432 2006 299
info@ulrich-alber.de

European Distributor Organisation:
Invacare, Kleiststraße 49, D-32457 Porta Westfalica
Tel: (49) (0)57 31 754 540, Fax: (49) (0)57 31 754 541
edo@invacare.com

España:
Invacare SA, c/Areny s/n, Polígon Industrial de Celrà, E-17460 Celrà (Girona)
Tel: (34) (0)972 49 32 00, Fax: (34) (0)972 49 32 20
contactsp@invacare.com

France:
Invacare Poirier SAS, Route de St Roch, F-37230 Fondettes
Tel: (33) (0)2 47 62 64 66, Fax: (33) (0)2 47 42 12 24
contactfr@invacare.com

Ireland:
Invacare Ireland Ltd, Unit 5 Seatown Business Campus, Seatown Road, Swords, County Dublin - Ireland
Tel: (353) 1 810 7084, Fax: (353) 1 810 7085
ireland@invacare.com

Italia:
Invacare Mecc San s.r.l., Via dei Pini 62, I-36016 Thiene (VI)
Tel: (39) 0445 38 00 59, Fax: (39) 0445 38 00 34
italia@invacare.com

Nederland:
Invacare BV, Celsiusstraat 46, NL-6716 BZ Ede
Tel: (31) (0)318 695 757, Fax: (31) (0)318 695 758
nederland@invacare.com
csede@invacare.com

Norge:
Invacare AS, Grensesvingen 9, Postboks 6230, Etterstad, N-0603 Oslo
Tel: (47) (0)22 57 95 00, Fax: (47) (0)22 57 95 01
norway@invacare.com
island@invacare.com

Österreich:
Invacare Austria GmbH, Herzog Odilostrasse 101, A-5310 Mondsee
Tel: (43) 6232 5535 0, Fax: (43) 6232 5535 4
info@invacare-austria.com

Portugal:
Invacare Lda, Rua Estrada Velha, 949, P-4465-784 Leça do Balio
Tel: (351) (0)225 1059 46/47, Fax: (351) (0)225 1057 39
portugal@invacare.com

Sverige & Suomi:
Invacare AB, Fagerstagatan 9, S-163 91 Spånga
Tel: (46) (0)8 761 70 90, Fax: (46) (0)8 761 81 08
sweden@invacare.com
finland@invacare.com

Switzerland:
Invacare AG, Benkenstrasse 260, CH-4108 Witterswil
Tel: (41) (0)61 487 70 80, Fax: (41) (0)61 487 70 81
switzerland@invacare.com

United Kingdom:
Invacare Limited, Pencoed Technology Park, Pencoed, Bridgend CF35 5HZ
Switchboard Tel: (44) (0)1656 776200, Fax: (44) (0)1656 776201
Customer services Tel: (44) (0)1656 776222, Fax: (44) (0)1656 776220
UK@invacare.com

Art. No. 1512799-7 2010-11-09